



Atlantic Richfield Company  
(a BP affiliated company)



P.O. Box 6549  
Moraga, California 94570  
Phone: (925) 299-8891  
Fax: (925) 299-8872

December 15, 2005

Re: ARCO Service Station # 6111  
10625 North De Anza Boulevard  
Cupertino, California  
Well Destruction Report

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple  
Environmental Business Manager



December 15, 2005

Mr. Mamerto Jorvina  
Santa Clara County Department of Environmental Health  
1555 Berger Drive, Suite 300  
San Jose, CA 95112-2716

**Re: Well Destruction Report  
ARCO Service Station #6111  
10625 North De Anza Boulevard  
Cupertino, California  
SCVWD ID No.: 07S2W12P01f**

Dear Mr. Jorvina:

At the request of Remediation Management (RM - a BP affiliated company), URS Corporation (URS) has prepared this *Well Destruction Report* for the ARCO Service Station #6111 located at 10625 North De Anza Boulevard in Cupertino, California (the Site, Figure 1). The scope of work consisted of destroying the remaining on-Site groundwater monitoring well (A-1) and vadose zone monitoring wells (AV-1 through AV-6) for RM. No groundwater monitoring wells remain on Site. Two leak detection monitoring probe (LDMP) wells were not destroyed and remain on-Site. Well locations are shown on Figure 1.

#### **SITE DESCRIPTION**

The Site is located on the northwestern corner of the intersection of North De Anza Boulevard and Valley Green Drive in Cupertino, California. The Site is an active retail service station with a station building and two fuel dispenser islands. Currently, five gasoline underground storage tanks (USTs) (four 6,000-gallon, one 12,000-gallon) and one 550-gallon waste oil tank remain on-Site. Case closure for the Site was granted by the County of Santa Clara Department of Environmental Health (CSCDEH) June 27, 2001.

#### **Well Destruction Activities**

URS personnel supervised a California licensed-driller destroy groundwater monitoring well A-1, and six vadose zone groundwater monitoring wells AV-1, AV-2, AV-3, AV-4, AV-5 and AV-6 by pressure-grouting the well casings. Well destruction activity details are presented below.

#### ***Personnel Present:***

URS Geologists, John McCain (California Professional Geologist No. 8020) and Kirk Martin.

#### ***Permits:***

Santa Clara Valley Water District (SCVWD) Permit # 05D00562 (A-1), Permit # 05D00566 (AV-1), Permit # 05D00565 (AV-2), Permit #

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
Fax: 510.874.3268

Mr. Mamerto Jorvina  
Page 2 of 2  
December 15, 2005

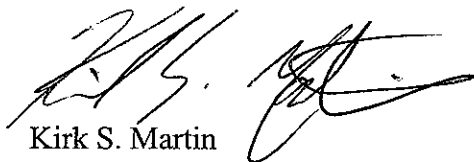
05D00568 (AV-3), Permit # 05D00563 (AV-4), Permit # 05D00564 (AV-5), Permit # 05D00567 (AV-6).


**Drilling Company:** Gregg Drilling of Martinez, California (C-57 License # 485165).  
**Date of Destruction:** October 12, 2005.  
**Number of Wells:** One (1) groundwater monitoring well (A-1) and six vadose zone monitoring wells (AV-1 through AV-6).  
**Destruction Method:** Wells were pressure grouted using a neat cement mixture according to SCVWD well destruction guidelines.  
**Destruction Notes:** Seven (7) wells were pressure grouted from the bottom to the ground surface using a Tremie pipe applying 25 pound per square inch of pressure for five minutes each. Copies of the Department of Water Resources (DWR) well completion reports are included in Attachment B.  
**Soil and Water Handling:** There were no soil cuttings or rinsate water produced during the destruction activities.

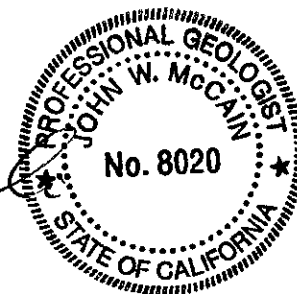
We appreciate the opportunity to present this *Well Destruction Report* to the CSCDEH on behalf of RM and trust that this document meets with your approval. Please do not hesitate to contact us at (510) 893-3600 with any questions or comments.

Sincerely,

**URS CORPORATION**

  
Kirk S. Martin  
Geologist

  
John McCain, P.G.  
Project Manager

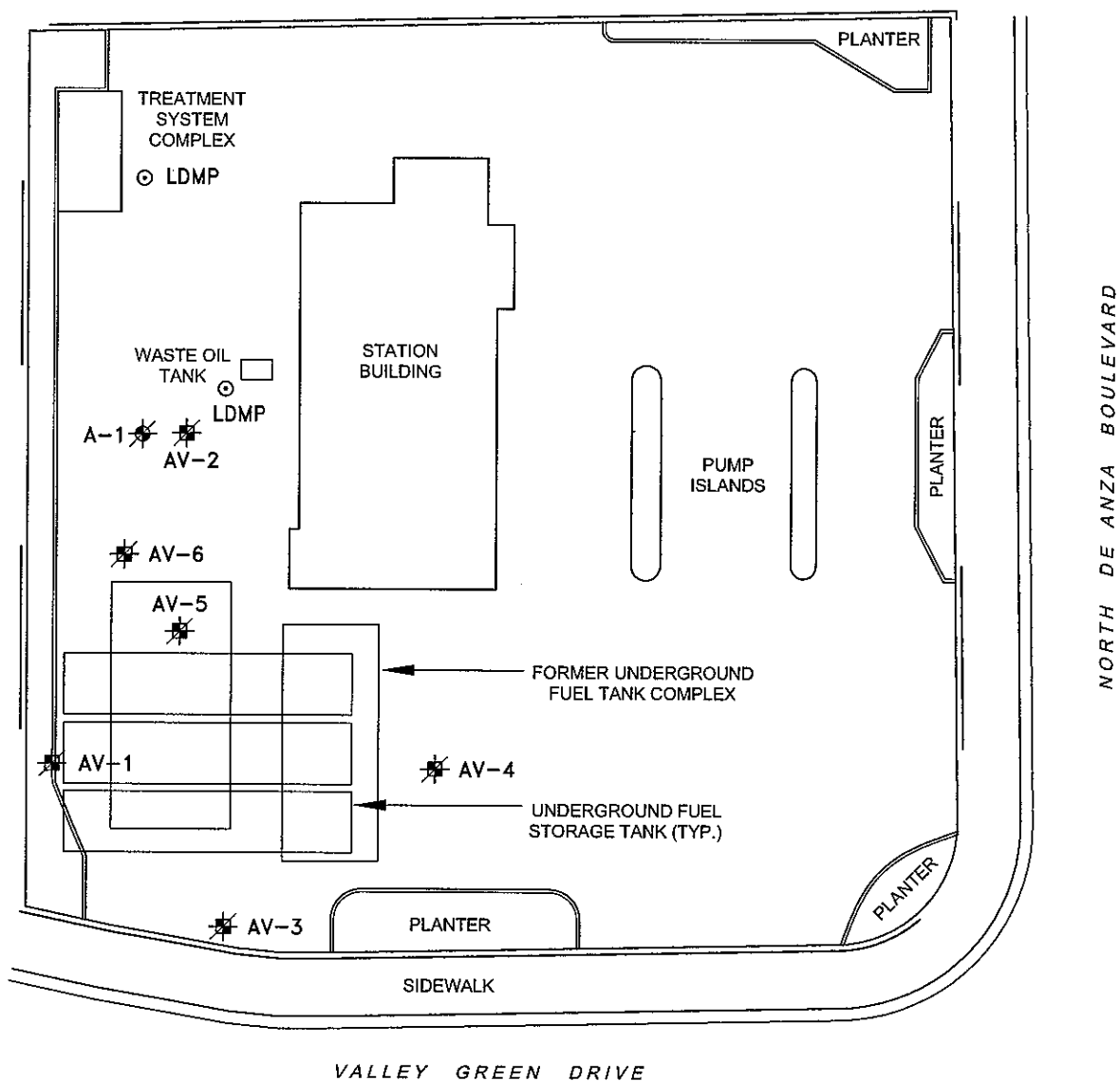


**Attachments:**




Figure 1	Site Map
Table 1	Well Construction and Destruction Details
Attachment A	SCVWD Well Destruction Permits
Attachment B	DWR Well Completion Reports (original copy submitted to SCVWD Wells Division)

cc: Mr. Paul Supple, RM (electronic copy uploaded to ENFOS)

Dec 13, 2005 - 5:10pm  
X:\x\_env\waste\BP GEM\Sites\Lynelle Drishl - SCVVD ARCO Sites\2005 Well Destructions\6111\Well Destruction Report\Drawings\SITE\MAP.dwg

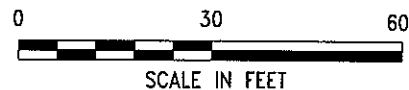


**LEGEND:**

- A-1  DESTROYED GROUNDWATER MONITORING WELL LOCATION
- A-3  DESTROYED VADOSE ZONE MONITORING WELL LOCATION
- LDMP  EXISTING LEAK DETECTION MONITORING PROBE LOCATION



NORTH



NOTE: SITE MAP ADAPTED FROM SECOR INTERNATIONAL FIGURES.  
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

**URS**

Project No. 38487385

Arco Service Station #6111  
Sunnyvale, California

**SITE MAP**

FIGURE

**1**



## Summary of Well Construction and Destruction Details

ARCO Station #6111  
10625 North DeAnza Blvd., Cupertino, CA  
Well Destruction Details

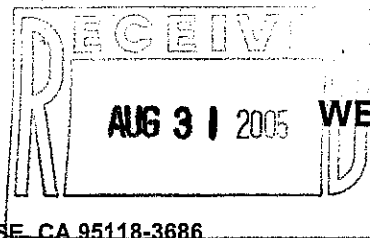
No.	Well ID	Well type	Well Diameter (inches)	Screened Interval (feet bgs)	Depth to bottom of boring (feet bgs)	Well Destruction Method
1	A-1	Monitoring	2	120 - 150	150.00	Pressure Grout
2	AV-1	Vapor Extraction	2	45 - 60	121.50	Pressure Grout
3	AV-2	Vapor Extraction	2	45 - 60	126.50	Pressure Grout
4	AV-3	Vapor Extraction	2	40 - 55	101.50	Pressure Grout
5	AV-4	Vapor Extraction	2	40 - 54	101.50	Pressure Grout
6	AV-5	Vapor Extraction	2	40 - 63	126.50	Pressure Grout
7	AV-6 <sup>1</sup>	Vapor Extraction	2	Unknown	Unknown	Pressure Grout

Notes:

bgs = Below ground surface

<sup>1</sup> Well AV-6 pressure grouted under consent of Mr. Bill Cameron of the Santa Clara Valley Water District.

**Attachment A**  
SCVWD Well Destruction Permits



# WELL DESTRUCTION APPLICATION

FC 198w (12-16-02)

Page 1 of 4

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00562

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station #6111	
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 10625 North DeAnza Blvd.	
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Cupertino, CA	
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 326 Page: 10 Parcel: 028	
<b>Consultant:</b> URS Corporation		<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800		<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612		<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 / John McCain		<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

## Well Information

<b>Well Registration No.:</b> 07S02W13F001	<b>Owner/Consultant Well No.:</b> A-1	<b>Original Well Construction Permit No.:</b> 96W00124
<b>Well Casing Depth:</b> 150'	<b>Total Boring Depth:</b> 150'	<b>Well Casing Diameter:</b> 2"

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station 6111

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

**Well Description:**

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Wall ☐ Pit Well

**Well Type:** check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☐ Vapor Extraction

☒ Monitoring ☐ Inclinometer ☒ Groundwater ☐ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☒ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

## Additional Questions For Water Producing Wells

Does the well have:

1. Outer conductor casing? ☐ Yes ☐ No

2. Annular cement seal outside of casing at surface? ☐ Yes ☐ No

3. A S.C.V.W.D. water meter attached? ☐ Yes ☐ No

**Type of Original Drilling Method:**

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☐ Hollow Stem Auger ☐ Other: \_\_\_\_\_

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.



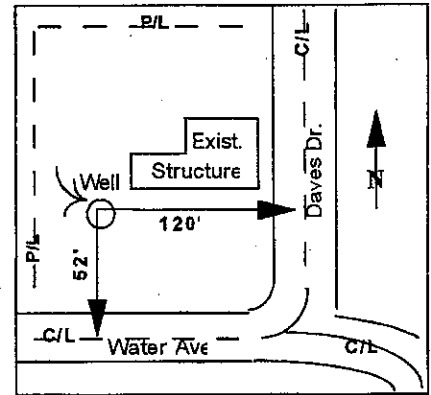
Site Plan

WELL LOCATION

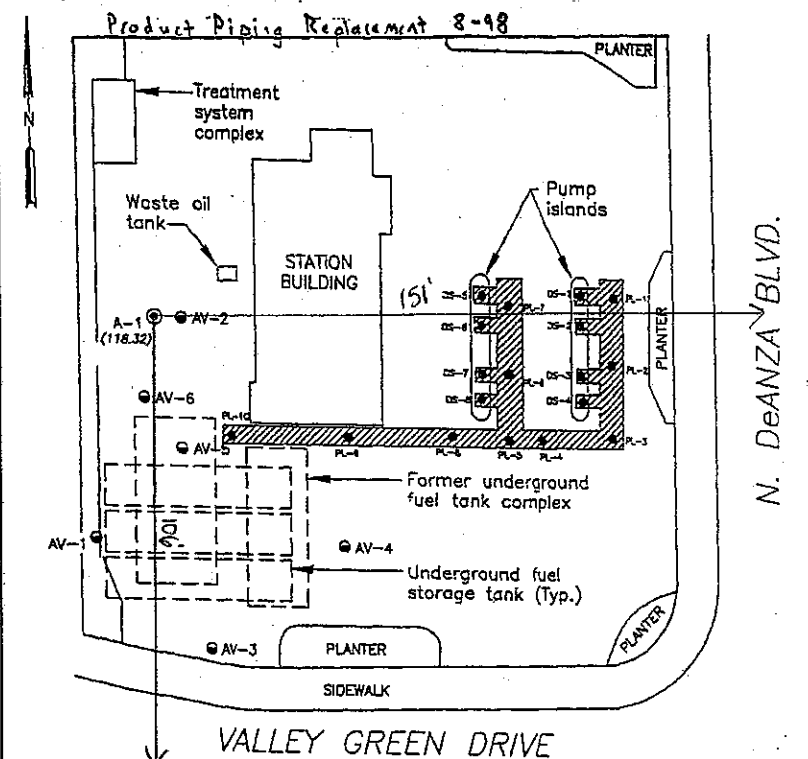
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



ATTACHMENT 1D



EXPLANATION

- ⊙ Groundwater monitoring well
- Vadose zone monitoring well
- Soil Sample Location
- ▨ Product Piping Trench



DATE: OCT. 1998  
DWN: KAS  
APP: 0  
REV: 0  
PROJECT NO. 20505-205.001

FIGURE 1  
ARCO PRODUCTS COMPANY  
SERVICE STATION 6111  
CUPERTINO, CALIFORNIA  
GROUNDWATER DATA SUMMARY  
SECOND QUARTER 1998

Please allow 10 working days to process this application.



Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent:	Print Name: Jacob Henry/ URS for Atlantic Richfield Co	Date: 8-30-05
Signature of Driller/Agent:	Print Name: Jacob Henry/ URS for Gregg Drilling	Date: 8-30-05
Signature of Consultant (if any):	Print Name: Jacob Henry/ URS	Date: 8-30-05

## DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 150 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By:	Date:	
District Permit No.: 05D00562	Date Issued: 9-14-05	Expiration Date: 3-16-06
Driller's Log No.: 029730		

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.

Santa Clara Valley Water District

WELL INSPECTION COMPLETION NOTICE  
FC 158A (06-14-95) (DP 4-901)

From: WELL SECTION	Date: 9-24-96	Permit No.: 96W00124
Inspector: J.B. Calhoun	Date of Inspection: 3-1-96	Well Registration No.: 07502W13F001
Well Owner: ARCO		
Address of Well Site: 10625 N. De Anza	City or County: Cupertino	
Drilling Company: West Hazmat	Consultant: PEG	

PURPOSE OF WELL:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Domestic  | <input type="checkbox"/> *Monitoring Well Use    |
| <input type="checkbox"/> Agricultural         | <input type="checkbox"/> *Vadose                 |
| <input type="checkbox"/> Municipal/Industrial | <input checked="" type="checkbox"/> *Groundwater |
| <input type="checkbox"/> Cathodic Protection  | <input type="checkbox"/> *Other                  |

1. Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
2. Depth of Surface Annular Seal - 109'

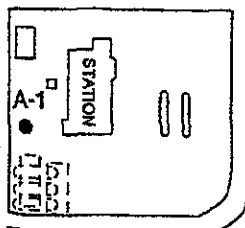
Comments: TD-150', Screen 150-120', Sand 150-115', Base 115-109', Casing 2" PVC, Drill Out Upon Destruction

Distribution: WHITE - Well Section, YELLOW - City/County, PINK - Permittee, GOLDENROD - Water Revenue





LOCATION MAP



Valley Green Drive

North DeAnza Boulevard



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. A-1

PAGE 1 OF 4

PROJECT NO. 330-061.1C

LOGGED BY: MOTO

DRILLER: BAYLAND

DRILLING METHOD: MUD ROTARY

SAMPLING METHOD: CAL MOD

CASING TYPE: SCH 80 PVC

SLOT SIZE: 0.020

GRAVEL PACK: #3 SAND

CLIENT: ARCO

DATE DRILLED: 2-26-96 to 3-1-96

LOCATION: 10625 N. DeAnza Blvd.

HOLE DIAMETER: 8"

HOLE DEPTH: 150'

WELL DIAMETER: 2

WELL DEPTH: 150'

CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				2			SM	FILL; asphalt and base rock.
				4				SILTY SAND; dark yellowish brown; 15-25% silty fines; some clay; fine to coarse sand; 20-30% fine to coarse gravels; very dense; no product odor.
	Mst	0	PUSH	6				<p>LITHOLOGY TAKEN FROM BORING LOG AV-20-43 1/2 FEET bgs</p> <p>@10': 30-40% fine to coarse gravels; very dense; no product odor.</p> <p>@15': 20-30% silty fines; fine sand; very dense; no product odor.</p> <p>@20.5': 15-25% silty fines; fine to coarse sand; 5-15% fine to coarse gravels; very dense; no product odor.</p> <p>CLAY; dark yellowish brown; low to moderate plasticity; 25-35% fine to coarse sand; 5-10% fine gravels; hard; no product odor.</p> <p>SM</p> <p>SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 5-15% fine gravels; very dense; no product odor.</p> <p>@35': very dense; no product odor.</p> <p>@40': very dense; faint product odor.</p>
				8				
	Mst	0	>50	10				
				12				
				14				
	Mst	0	>50	16				
				18				
				20				
	Mst	0	>50	22				
				24				
	Mst	0	>50	26			CL	
				28				
	Mst	0	>50	30			SM	
				32				
				34				
	Mst	0	>50	36				
				38				
				40				
	Mst	80	50	42				
				44				

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. A-1

PAGE 2 OF 4

See Page One

PROJECT NO. 330-061.1C

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT: ARCO

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				46			SM	SILTY SAND: as above.
				48				
	Mst	115	34	50				@48.5': as above; medium dense; moderate product odor.
				52				
	Mst	57	29	54				@53.5-55': 20% silty fines; 70% fine sand; 10% medium sand; medium dense; faint product odor.
				56				
				58				
	Mst	350	35	60				@58.5-60': 20% silty and clayey fines; 70% fine sand; 10% fine gravel; medium dense; moderate product odor.
				62				
				64				
				66				
				68				
				70				
				72				
				74			CL	SANDY CLAY: olive brown; moderate plasticity; 75% clayey fines; 20% fine to medium sand; trace fine gravel; very stiff; faint to moderate product odor.
	Mst	163	32	76				
				78				
				80				
				82				
				84			ML	SILT: olive brown to dark greenish gray; no plasticity; 70% silty fines; 30% fine sand; hard.
				86				
				88				

LOCATION MAP   <div style="text-align: center; font-size: 1.2em; font-weight: bold;">See Page One</div>		<b>PACIFIC ENVIRONMENTAL GROUP, INC.</b>  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           PROJECT NO. 330-061.1C            LOGGED BY:            DRILLER:            DRILLING METHOD:            SAMPLING METHOD:            CASING TYPE:            SLOT SIZE:            GRAVEL PACK:         </div> <div style="width: 45%;">           CLIENT: ARCO            DATE DRILLED:            LOCATION:            HOLE DIAMETER:            HOLE DEPTH:            WELL DIAMETER:            WELL DEPTH:            CASING STICKUP:         </div> </div>		WELL NO. A-1 PAGE 3 OF 4				
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Mst	53	52	90			ML	SILT: hard; faint product odor.
				92			SM	SILTY SAND: olive brown; 20% silty fines; 80% fine to medium sand; dense; faint product odor.
				94				
				96				
				98				
				100				
				102				
	Mst	15	33	104				@103.5-105': 20% silty and clayey fines; 80% fine to coarse sand; dense; faint product odor.
				106				
				108				
				110				
				112				
			114			SP	GRAVELLY SAND: olive brown; 20% clayey fines; 50% fine sand; 30% angular to rounded gravel; up to 2" diameter; dense; faint product odor.	
			116					
			118					
Mst	16	40	120					
			122					
Mst	18	>63	124			GP	SANDY GRAVEL: olive brown; 40% fine to coarse sand; 60% angular to rounded gravel up to 1-1/2" diameter; very dense; faint product odor.	
			126					
			128					
Mst-Wt	6	>63	130					
			132					
								@130': gravel is rounded predominately 1/4" diameter; size ranges up to 3/4" diameter; very dense; no product odor.

LOCATION MAP		PACIFIC ENVIRONMENTAL GROUP, INC.		WELL NO. A-1	
See Page One		PROJECT NO. 330-061.1C		CLIENT: ARCO	
		LOGGED BY:		DATE DRILLED:	
		DRILLER:		LOCATION:	
		DRILLING METHOD:		HOLE DIAMETER:	
		SAMPLING METHOD:		HOLE DEPTH:	
		CASING TYPE:		WELL DIAMETER:	
		SLOT SIZE:		WELL DEPTH:	
		GRAVEL PACK:		CASING STICKUP:	

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
SAND	Mst-Wt	0	>63	134			GP	SANDY GRAVEL: see previous page.
				136			GC	CLAYEY GRAVEL: olive brown; 30% clayey fines; 10% fine to coarse sand; 60% angular to rounded gravel up to 1" diameter; very dense; no product odor.
138								
140								
142								
	Mst	0	49	144				
				146				
				148			CL	GRAVELLY CLAY: yellowish brown; 75% clayey fines; 10% fine to medium sand; 15% fine rounded gravel; hard; no product odor.
				150				BOTTOM OF BORING 150'
				152				
				154				
				156				
				158				
				160				
				162				
				164				
				166				
				168				
				170				
				172				
				174				
				176				



# 10625 N. DeAnza Blvd



Well Annotations- 7 Wells Selected

APN: 32610028  
10625 N De Anza Blvd  
Cupertino CA  
95014

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	07S02W12P002	86W0263	A611-B9	Other-Active	6115958	1947112
2	07S02W12P003	91W0794	AV-1	Other-Active	6115957	1947019
3	07S02W12P004	91W0796	AV-5	Other-Active	6115978	1947038
4	07S02W12P005	91W0797	AV-4	Other-Active	6115997	1947017
5	07S02W12P006	91W0793	AV-3	Other-Active	6115978	1946896
6	07S02W12P007	91W0795	AV-2	Other-Active	6115956	1947077
7	07S02W13F001	96W00124	A 1	Other-Active	6115961	1947058

Wells.shp

- Water Supply - Active
- Water Supply - Standby
- Water Supply - Inactive
- Extraction (Env) - Active
- Extraction (Env) - Inactive
- Other - Active
- Other - Inactive
- Abandoned
- Destroyed
- Status Undetermined

Parcels.shp  
FUELLEAK.shp  
VALFLOOR.SHP

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

Approximate Scale

25 0 25 50 Feet



# WELL DESTRUCTION APPLICATION

FC 198w (12-16-02)

Page 1 of 4

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D 00566

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station #6111	
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 10625 North DeAnza Blvd.	
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Cupertino, CA	
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 326 Page: 10 Parcel: 028	
<b>Consultant:</b> URS Corporation		<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800		<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612		<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 / John McCain		<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.	

**All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

## Well Information

<b>Well Registration No.:</b> 07S02W12P003	<b>Owner/Consultant Well No.:</b> AV-1	<b>Original Well Construction Permit No.:</b> 91W0794
<b>Well Casing Depth:</b> 60' (121.5')	<b>Total Boring Depth:</b> 121.5'	<b>Well Casing Diameter:</b> 2"

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station 6111

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

**Well Description:**

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Wall ☐ Pit Well

**Well Type:** check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☒ Vapor Extraction

☒ Monitoring ☐ Inclinator ☐ Groundwater ☒ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☒ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

## Additional Questions For Water Producing Wells

Does the well have:

- Outer conductor casing? ☐ Yes ☐ No
- Annular cement seal outside of casing at surface? ☐ Yes ☐ No
- A S.C.V.W.D. water meter attached? ☐ Yes ☐ No

**Type of Original Drilling Method:**

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☐ Hollow Stem Auger ☐ Other: \_\_\_\_\_

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.



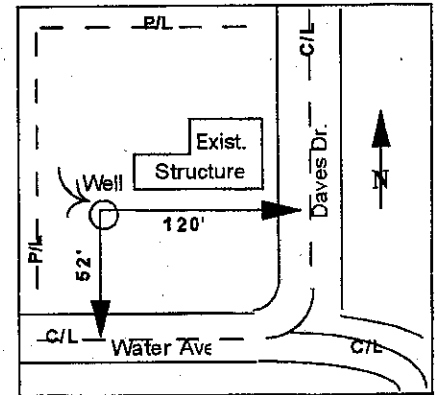
Site Plan

WELL LOCATION

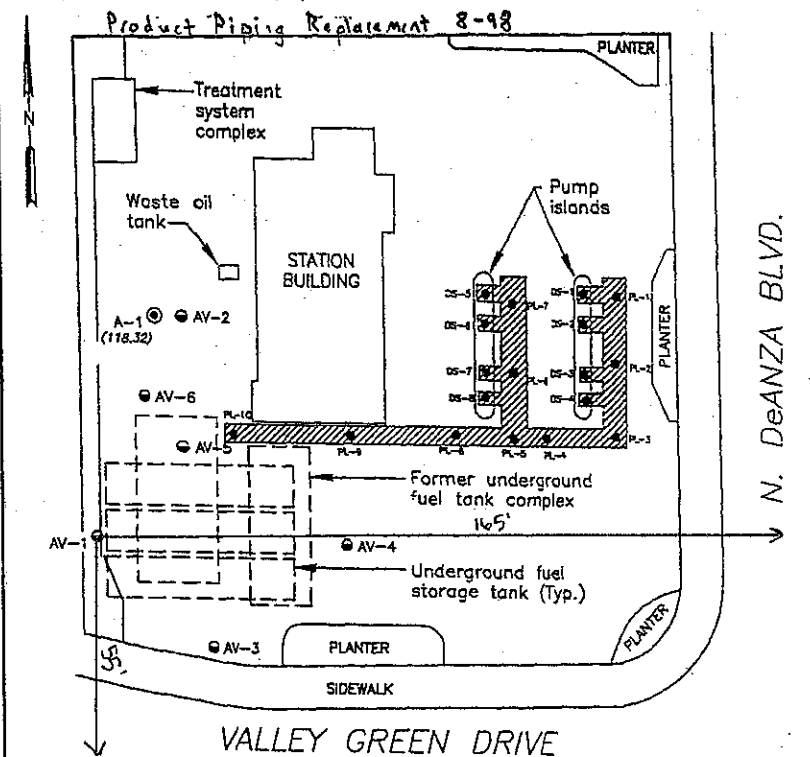
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



ATTACHMENT 1D



EXPLANATION

- ⊙ Groundwater monitoring well
- Vadose zone monitoring well
- Soil Sample Location
- ▨ Product Piping Trench

0 30 60  
SCALE IN FEET



DATE: OCT. 1998  
DWN: KAG  
APP: 0  
REV: 0  
PROJECT NO. 20805-205.001

FIGURE 1  
ARCO PRODUCTS COMPANY  
SERVICE STATION 6111  
CUPERTINO, CALIFORNIA  
GROUNDWATER DATA SUMMARY  
SECOND QUARTER 1998

Please allow 10 working days to process this application.



Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

**NOTE:** All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Jacob Henry/ URS for Atlantic Richfield Co	Date: 8-30-05
Signature of Driller/Agent: 	Print Name: Jacob Henry/ URS for Gregg Drilling	Date: 8-30-05
Signature of Consultant (if any): 	Print Name: Jacob Henry/ URS	Date: 8-30-05

**DISTRICT USE ONLY**

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

**NOTE:** Neat cement is the only sealing material approved for pressure grouting.

☒ OR Drill out well to a total depth of 60 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). **NOTE:** Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 	Date: 9-14-05		
District Permit No.: 05D00566	Date Issued: 9-14-05	Expiration Date: 3-14-06	Driller's Log No.: 029734

Please allow 10 working days to process this application.



**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) **MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS.** An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

**Please allow 10 working days to process this application.**

ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

Proj 330-01-03

Do not fill in

No. 382834

Notice of Intent No. \_\_\_\_\_  
Local Permit No. or Date 91W0794

State Well No. 0752 W12 P02A  
Other Well No. \_\_\_\_\_

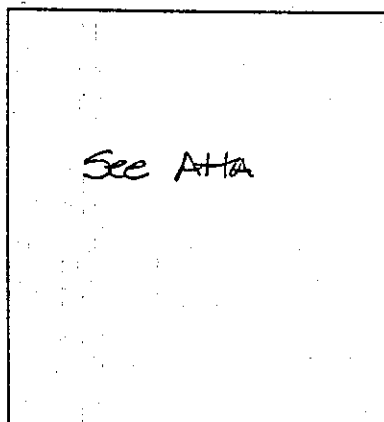
(1) OWNER: Name ARLD  
Address PO Box 5811  
City San Mateo, Ca ZIP 94402

(12) WELL LOG: Total depth 131.5 ft. Completed depth 60 ft.  
from ft. to ft. Formation (Describe by color, character, size or material)

(2) LOCATION OF WELL (See instructions):

County Santa Clara Owner Well Number AV-1  
Well address if different from above 10025 N De Anza  
Township Cupertino Range \_\_\_\_\_ Section \_\_\_\_\_  
Distance from cities, roads, railroads, fences, etc. \_\_\_\_\_

- See Attached Boring Log



(3) TYPE OF WORK

New Well ☒ Deepening ☐  
Reconstruction ☐  
Reconditioning ☐  
Horizontal Well ☐  
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE

Domestic ☒  
Irrigation ☒  
Industrial ☐  
Test Well ☐  
Municipal ☐  
Other ☐ (Describe)

WELL LOCATION SKETCH

(5) EQUIPMENT:

Rotary ☐ Reverse ☐  
Cable ☐ Air ☐  
Other ☒ Bucket ☐  
Hollow-stem

(6) GRAVEL PACK:

Yes ☐ No ☒ Size 20/40 sand  
Diameter of bore 40  
Packed from 40 to 60 ft.

(7) CASING INSTALLED:

Steel ☐ Plastic ☒ Concrete ☐

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	60	2	40	45	60	.020

(9) WELL SEAL:

Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 40 ft.  
Were strata sealed against pollution? Yes ☐ No ☐ Interval \_\_\_\_\_ ft.  
Method of sealing Cement grout

Work started \_\_\_\_\_ 19\_\_\_\_ Completed \_\_\_\_\_ 19\_\_\_\_

(10) WATER LEVELS:

Depth of first water, if known \_\_\_\_\_ ft. N/A  
Standing level after well completion \_\_\_\_\_ ft.

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

(11) WELL TESTS:

Was well test made? Yes ☐ No ☐ If yes, by whom? \_\_\_\_\_  
Type of test Pump ☐ Bailer ☐ Air lift ☐  
Depth to water at start of test \_\_\_\_\_ ft. end of test \_\_\_\_\_ ft.  
Discharge \_\_\_\_\_ gal/min after \_\_\_\_\_ hours Water temperature \_\_\_\_\_  
Chemical analysis made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_  
Was electric log made? Yes ☐ No ☐ If yes, attach copy to this report

Signed Ronald J. West (Well Driller)  
NAME West Drilling  
Address 3233 Hartzfield  
City Rancho Cordova ZIP 95742  
License No. CS 554977 Date of this report 6-41

Santa Clara Valley Water District

5750 Almaden Expressway, San Jose, CA 95118 (408) 265-2600

# WELL CONSTRUCTION APPLICATION

FC 154 (12-06-89) (DP 4-901)

Project 330-41.03

TO BE COMPLETED BY DISTRICT		
District Permit No.: <u>91W0794</u>	Date issued: <u>4-11-91</u>	Well Registration No.: <u>0752W12P02A</u>
Geologic Setting: <u>3</u>	Expiration Date: <u>10-11-91</u>	Driller's Log No.: <u>382834</u>

TO BE COMPLETED BY OWNER AND DRILLER		
Property Owner: <u>ARCO Products</u>	Well Owner (if different):	Drilling Co.: <u>West Hazmat</u>
Address: <u>PO Box 5811</u>	Address of Well Site: <u>10625 N. De Anza Blvd.</u>	Driller's Contractors License Number (C-57 Req'd): <u>057-554979</u>
City, State, Zip: <u>San Mateo, Ca</u>	City, State, Zip: <u>Cupertino, Ca</u>	Address: <u>3233 Fitzgerald</u>
Telephone No.:	Telephone No.:	City, State, Zip: <u>Rancho Cadenas, Ca 95142</u>
Assessor's Parcel No. of Well site: Book <u>326</u> Page <u>10</u> Parcel <u>028</u>	Owner's/Consultant's Well No.: <u>AV-1</u>	Telephone No.: <u>(916) 638-7276</u>

Estimated depth of completed well: ☐ Less than 50 ft. ☒ 50 to 300 ft. ☐ Over 300 ft.

Purpose of Well: ☐ Domestic ☐ Municipal/Industrial ☐ Agricultural ☒ Monitoring ☐ Cathodic Protection

\*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive air samples for analysis. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

**THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS**

Purpose of Monitoring Well: ☐ To comply with City or County Hazardous Materials Storage Permit Ordinance ☒ Exploration studies ☐ Other (specify): ☐ Extraction/Recovery

NAME OF BUSINESS AT WELL SITE: ARCO Service Station

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☒ No

If yes, give name of City or County:

Consultant's Name (Company): <u>Pacific Environmental Group</u>	Type of monitoring device: <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Vadose
Address: <u>1601 Civic Center Dr. #202</u>	Monitoring well use: <input type="checkbox"/> Depth <input type="checkbox"/> Quality <input type="checkbox"/> Chloride
City, State, Zip: <u>Santa Clara, Ca 95050</u>	Vadose device installation: <input checked="" type="checkbox"/> Vapor <input type="checkbox"/> Interface <input type="checkbox"/> Suction Lysimeter
Telephone No.: <u>(408) 984-6536</u>	Signature of Responsible Professional (No substitution of signature will be accepted): <u>[Signature]</u>
	Registration No. Civil Engineer OR Certificate No. Engineering Geologist: <u>CEG1293</u>

**TOPOGRAPHIC FEATURES**

Well is to be constructed: ☐ In a public sidewalk ☐ In a public road ☐ On public property ☒ On private property ☐ On SCVWD property

Within 50 ft. of the top of a creek bank: ☐ Yes ☒ No

Within 50 ft. of a sanitary sewer: ☐ Yes ☒ No

Within 100 ft. of a pit privy, septic tank, leachfield: ☐ Yes ☒ No

Other wells exist on this property: ☐ Yes ☒ No

Status: ☐ Active ☐ Inactive ☐ Abandoned

**CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:**

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

[Signature] 4/10/91  
Signature of Well Owner/Agent Date

[Signature] 4/10/91  
Signature of Driller/Agent Date

**MONITORING WELL PLAN APPROVAL**

City/County: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

**IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 927-0710 Ext. 660. For weekends, holidays, after hours call (408) 395-8121 or (408) 927-0710.**

Santa Clara Valley Water District



# WELL INSPECTION COMPLETION NOTICE

FC 158A (07-26-89) (DP 4-901)

From: WELL SECTION	Date: 4/18/91	Permit No.: 91W0794
Inspector: MICHAEL HELLER	Date of Inspection: 4/17/91	Well Registration No.: AV-1 0752W12P02A
Well Owner: ARCO		
Address of Well Site: 10625 N. DEANZA BLVD	City or County: CUPERTINO	
Drilling Company: WEST HAZMAT	Consultant: PACIFIC ENVIRONMENTAL GROUP	

## PURPOSE OF WELL:

- |   |   |
|---|---|
| <input type="checkbox"/> Domestic             | <input checked="" type="checkbox"/> Monitoring Well Use |
| <input type="checkbox"/> Agricultural         | <input checked="" type="checkbox"/> Vadosa              |
| <input type="checkbox"/> Municipal/Industrial | <input checked="" type="checkbox"/> Groundwater         |
| <input type="checkbox"/> Cathodic Protection  | <input type="checkbox"/> Other                          |

- Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
- Depth of Surface Annular Seal - 42'

Comments: TD=121 1/2' SAND UP TO 42' 10 SACK SLURRY  
 NEAT CEMENT 121 1/2' - 40' BENTONITE = 3' HOLLOW STEM  
 SCREEN = 40' - 45' PV L= 4"

Distribution: White - Well Section Yellow - Water Revenue Pink - Permittee Goldenrod - City/County

①

Well Number	Screened Interval (feet below ground surface)
AV-1	45 to 60
AV-2	45 to 65
AV-3	40 to 55
AV-4	39 to 54
AV-5	43 to 63

A Lonestar 2 x 12 sand pack was placed in the annular space across the screened interval and extends approximately 2 to 5 feet above the top of the screens. A bentonite and cement seal extends from the sand pack to the ground surface. A locking cap and protective vault box were installed on top of each well. The attached boring logs show well construction details.

#### Laboratory Analysis

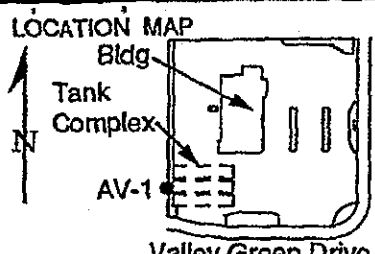
Soil samples from the borings were analyzed for total petroleum hydrocarbons (calculated as gasoline), and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Soil samples from 5-foot intervals from each boring were submitted for analysis. The analytical method for determining the presence of total petroleum hydrocarbons (TPHg) is taken from EPA Methods 8015, 8020, and 5030 using the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and photo-ionization detector. The certified analytical reports are attached to this report.

#### FINDINGS

##### Subsurface Conditions

Soils encountered at the site consisted primarily of clayey sands, silty sands, poorly graded sands, and clayey gravels, two distinct and continuous clay/silt layers, and some discontinuous clay and silt layers (Figure 6). The depth of the borings ranged from 101-1/2 to 126-1/2 feet. The top of the first clay/silt layer occurred at different depths in each well ranging from 54 to 68 feet. The thickness of this layer ranged from approximately 3 to 13 feet. The second clay/silt layer occurred at depths ranging from 74 to 80 feet and was found to range in thickness from 1 to 16 feet. This second clay/silt layer was not found in AV-1.

Groundwater was not encountered in any of the borings and thus no groundwater monitoring wells were installed. Depth to groundwater data obtained from the

<b>LOCATION MAP</b>  NORTHING EASTING ELEVATION	<b>PACIFIC ENVIRONMENTAL GROUP, INC.</b>		WELL/BORING NO. AV-1 PAGE 1 OF 3
	PROJECT NO. 330-61.03 LOGGED BY: JC DRILLER: WHM DRILLING METHOD: HSA SAMPLING METHOD: CAL MOD CASING TYPE: Sch 40 PVC SLOT SIZE: 0.020" GRAVEL PACK: 2 x 12 SAND	CLIENT: ARCO DATE DRILLED: 4-16-91 LOCATION: De Anza & Valley Green HOLE DIAMETER: 8" HOLE DEPTH: 121.5' WELL DIAMETER: 2" WELL DEPTH: 121.5' CASING STICKUP: NA	

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/ft)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT GROUT				2			SC	FILL; topsoil.
				4			GC	CLAYEY SAND TO CLAYEY GRAVEL; strong brown; 10-15% clayey fines; fine to coarse sand; 45-50% gravel and cobbles; very dense; no product odor.
	Mst	0	PUSH	6				@10': very dense; no product odor.
	Mst	1	>50	10				
				12				
	Mst	0	>50	16			SP	SAND; yellowish brown; poorly graded; very dense; no product odor.
				18			SC	CLAYEY SAND; yellowish brown; 10-15% clay; silty fines; fine to coarse sand; 20-25% gravel; iron oxide; very dense; no product odor.
	Mst	1	>50	20				
				22				
	Mst	1	>50	26				@25' very dense; no product odor.
				28				
	Mst	0	>50	30			SM	SILTY SAND; yellowish brown to gray; 5-15% silty fines; fine to coarse sand; 20-30% sub-angular gravel; very dense; no product odor.
SAND				32				
				34				
	Mst	50	>50	36				@35': greenish gray; very dense; faint product odor.
				38				
	Mst	120	>50	40				@40': very dense; moderate product odor.
				42				
				44				

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-1

PAGE 2 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

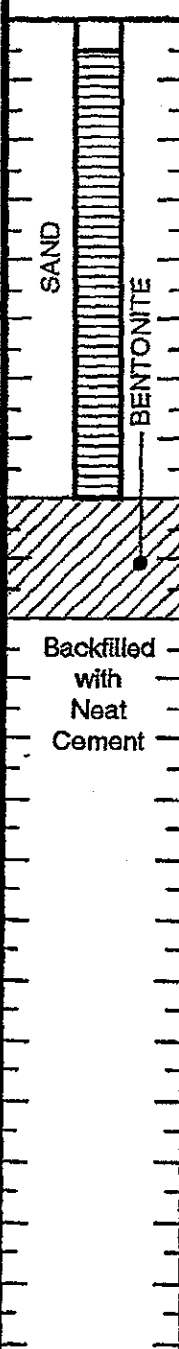
HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	V. Mst	350	>50	46			SM	SILTY SAND - continued. @45': strong brown; 35-45% silty fines; predominantly fine sand; trace coarse sand; very dense; strong product odor.
				48				
	V. Mst	290	>50	50				@50': very dense
				52				
				54				
	V. Mst	210	>50	56				@55': very dense; moderate product odor.
				58				
				60				@58': dark greenish gray; 5-10% silty fines; fine to coarse sand; 5-10% gravel; very dense; strong product odor.
	Wt	50	>50	62			CL	CLAY; strong brown; low plasticity; 30-40% very fine sand; hard; moderate product odor.
				64				
	Mst	40	>50	66				@65': hard; moderate product odor.
				68				
				70			SC	CLAYEY SAND; strong brown; 25-30% clay and silt; fine to coarse sand, trace gravel; very dense; moderate product odor.
				72				
				74				
	Mst	51	>50	76				@75'; very dense; no product odor
				78				
				80			SM	SILTY SAND; strong brown; 30-35% silt and clay; fine to coarse sand; trace to 5% gravel; very dense; no product odor.
				82				
				84				
	Mst	21	>50	86				@85': 20-25% gravel; very dense; no product odor.
				88				



LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-1

PAGE 3 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

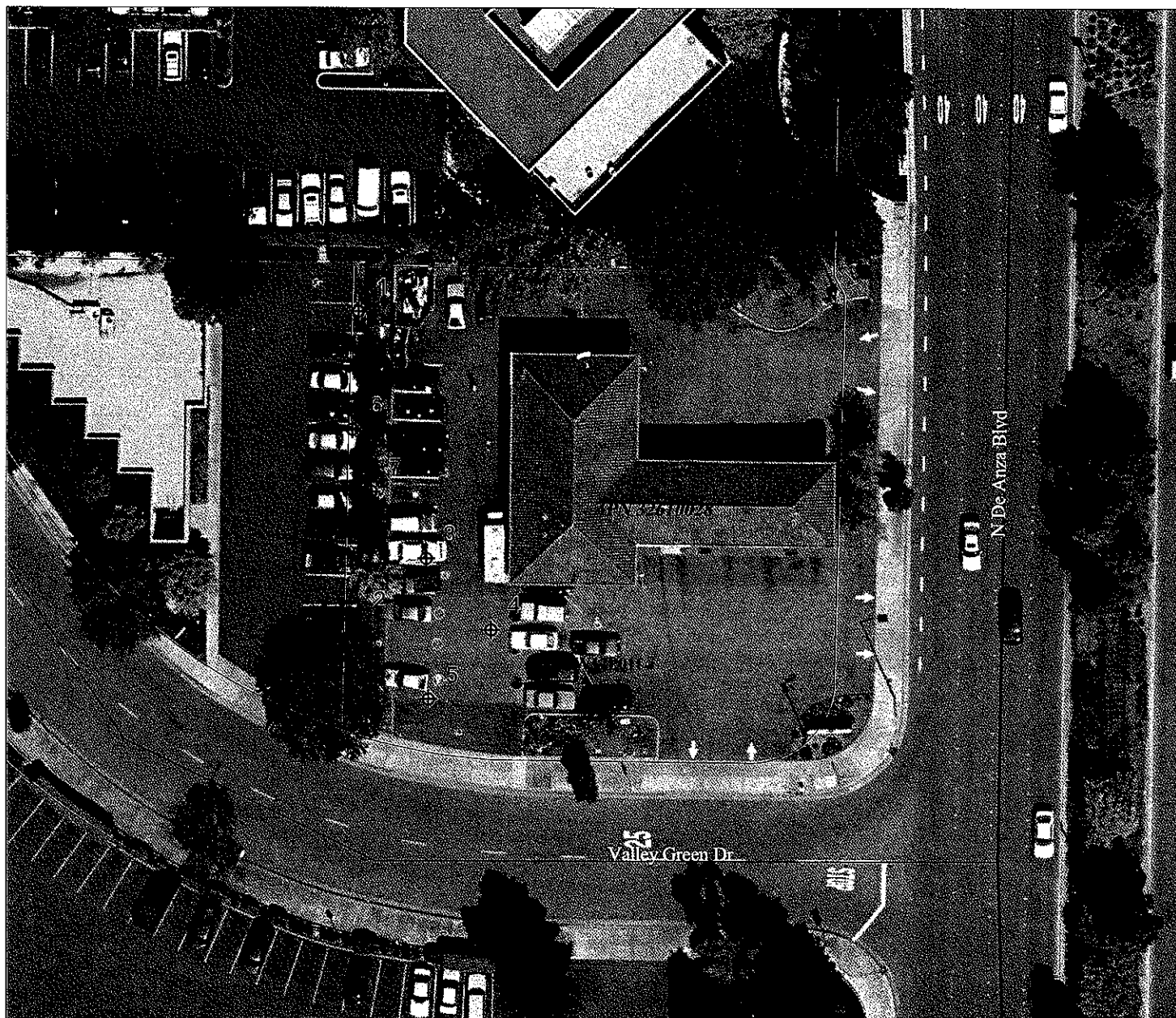
WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement	Mst	8	>50	90			SM	SILTY SAND - continued.
				92				@ 90': very dense; no product odor.
				94				@ 94': very dense; no product odor.
	Mst	18	>50	96				
				98				@ 98': strong brown; 20-30% fines; fine sand; dense; no product odor.
	Mst	5	>50	100				
				102				
				104				@ 105': 10-15% coarse sand and gravel; very dense; no product odor.
	Mst	15	>50	106				
				108				
	Mst	9	>50	110				@ 110': very dense; no product odor.
				112				
				114				
	Mst	3	>50	116				@ 115': very dense; no product odor.
				118				
	Mst	4	>50	120				@ 120': very dense ; no product odor.
				122				
				124				
				126				
				128				
				130				
				132				
								BOTTOM OF BORING AT 121.5'





APN: 32610028  
10625 N De Anza Blvd  
Cupertino CA  
95014

Well Annotations- 7 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	07S02W12P002	86W0263	A611-B9	Other-Active	6115958	1947112
2	07S02W12P003	91W0794	AV-1	Other-Active	6115957	1947019
3	07S02W12P004	91W0796	AV-5	Other-Active	6115978	1947038
4	07S02W12P005	91W0797	AV-4	Other-Active	6115997	1947017
5	07S02W12P006	91W0793	AV-3	Other-Active	6115978	1946996
6	07S02W12P007	91W0795	AV-2	Other-Active	6115956	1947077
7	07S02W13F001	96W00124	A 1	Other-Active	6115961	1947058

- Wells.shp
- Water Supply - Active
  - Water Supply - Standby
  - Water Supply - Inactive
  - Extraction (Env) - Active
  - Extraction (Env) - Inactive
  - Other - Active
  - Other - Inactive
  - Abandoned
  - Destroyed
  - Status Undetermined
- Parcels.shp
- Fuelleak.shp
- VALFLOOR.SHP
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

Approximate Scale

25 0 25 50 Feet



# WELL DESTRUCTION APPLICATION

FC 198w (12-16-02)

Page 1 of 4

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00 565

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station #6111
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 10625 North DeAnza Blvd.
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Cupertino, CA
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 326 Page: 10 Parcel: 028
<b>Consultant:</b> URS Corporation	<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800	<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612	<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 / John McCain	<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.

**All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

## Well Information

<b>Well Registration No.:</b> 07S02W12-P007	<b>Owner/Consultant Well No.:</b> AV-2	<b>Original Well Construction Permit No.:</b> 91W0795
<b>Well Casing Depth:</b> 65'	<b>Total Boring Depth:</b> 126.5'	<b>Well Casing Diameter:</b> 2"

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station 6111

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

**Well Description:**

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Wall ☐ Pit Well

**Well Type:** check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☒ Vapor Extraction

☒ Monitoring ☐ Inclinator ☐ Groundwater ☒ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☒ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

## Additional Questions For Water Producing Wells

Does the well have:

1. Outer conductor casing? ☐ Yes ☐ No

2. Annular cement seal outside of casing at surface? ☐ Yes ☐ No

3. A S.C.V.W.D. water meter attached? ☐ Yes ☐ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☐ Hollow Stem Auger ☐ Other: \_\_\_\_\_

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.



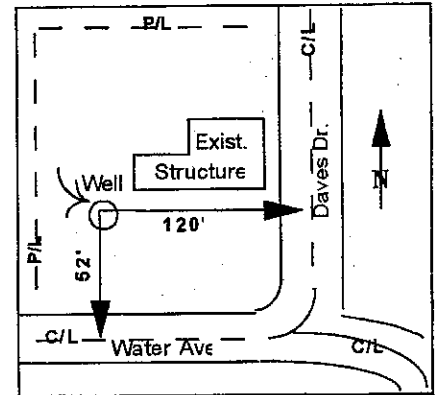
## Site Plan

### WELL LOCATION

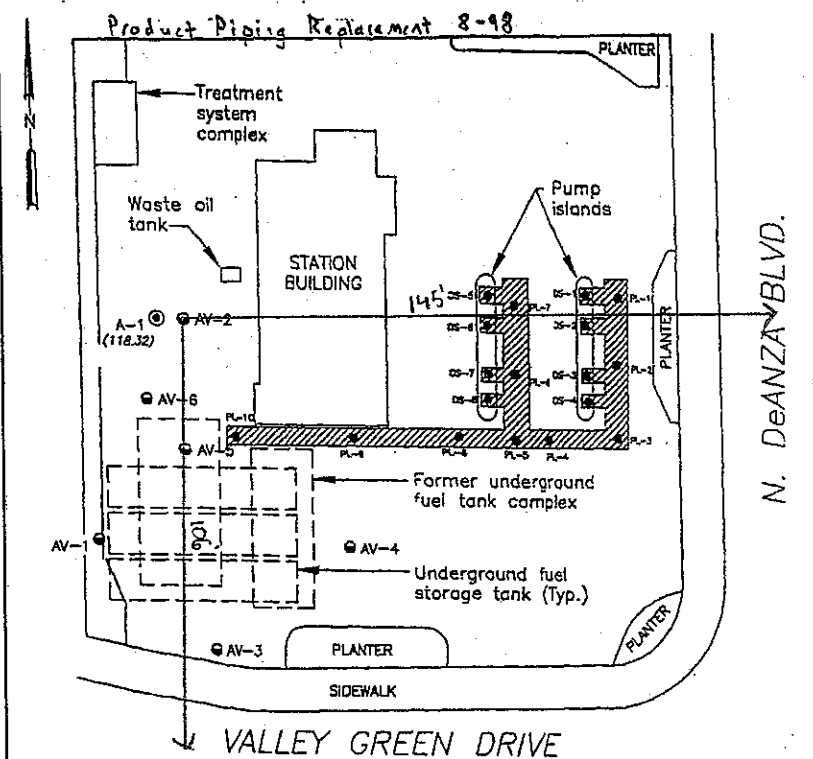
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →

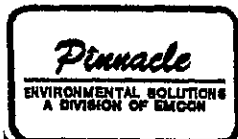


### ATTACHMENT 1D



#### EXPLANATION

- ⊙ Groundwater monitoring well
- Vadose zone monitoring well
- Soil Sample Location
- ▨ Product Piping Trench



DATE OCT. 1998  
DWN KAS  
APP  
REV 0  
PROJECT NO. 20805-205.001

**FIGURE 1**  
ARCO PRODUCTS COMPANY  
SERVICE STATION 6111  
CUPERTINO, CALIFORNIA  
GROUNDWATER DATA SUMMARY  
SECOND QUARTER 1998

Please allow 10 working days to process this application.



Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

**NOTE:** All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Jacob Henry/ URS for Atlantic Richfield Co	Date: 8-30-05
Signature of Driller/Agent: 	Print Name: Jacob Henry/ URS for Gregg Drilling	Date: 8-30-05
Signature of Consultant (if any): 	Print Name: Jacob Henry/ URS	Date: 8-30-05

**DISTRICT USE ONLY**

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

**NOTE:** Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 65 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). **NOTE:** Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 	Date: 9-14-05		
District Permit No.: 05D 00565	Date Issued: 9-14-05	Expiration Date: 3-14-06	Driller's Log No.: 029733

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.

Santa Clara Valley Water District



# WELL INSPECTION COMPLETION NOTICE

FC 158A (07-26-89) (DP 4-901)

From: WELL SECTION	Date: 4-23-91	Permit No.: 91W0795
Inspector: Bill Cameron	Date of Inspection: 4-18-91	Well Registration No.: AV-2 0752W12P06A
Well Owner: ARCO Products		
Address of Well Site: 10625 N. De Anza Blvd.		City or County: Cupertino
Drilling Company: West Haz Mat	Consultant: Pacific Env. Group	

## PURPOSE OF WELL:

- ☐ Domestic
- ☐ Agricultural
- ☐ Municipal/Industrial
- ☐ Cathodic Protection

## \*Monitoring Well Use

- ☒ \*Vadose
- ☐ \*Groundwater
- ☐ \*Other

- Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
- Depth of Surface Annular Seal = 43'

Comments: TD = 126.5 - back filled to 65'      Hollow Stem  
 TS = 43'      Neat Cement  
 Bent = 2'

Distribution: White - Well Section    Yellow - Water Revenue    Pink - Permittee    Goldenrod - City/County

①

Santa Clara Valley Water District

5750 Almaden Expressway, San Jose, CA 95118 (408) 265-2600

# WELL CONSTRUCTION APPLICATION

FC 158 (12-08-89) (DP 4-901)

project 330-41.03

TO BE COMPLETED BY DISTRICT		
District Permit No.: <b>91W0795</b>	Date issued: <b>4-11-91</b>	Well Registration No.: <b>0752W12 P06A</b>
Geologic Setting: <b>3</b>	Expiration Date: <b>10-11-91</b>	Driller's Log No.: <b>382835</b>

TO BE COMPLETED BY OWNER AND DRILLER		
Property Owner: <b>ARCO Products</b>	Well Owner (if different):	Drilling Co.: <b>West Hazmat</b>
Address: <b>PO Box 5811</b>	Address of Well Site: <b>10625 N. De Anza Blvd.</b>	Driller's Contractors License Number (C-57 Req'd): <b>057-554979</b>
City, State, Zip: <b>San Mateo, Ca</b>	City, State, Zip: <b>Cupertino, Ca</b>	Address: <b>3233 Fitzgerald</b>
Telephone No.:	Telephone No.:	City, State, Zip: <b>Rancho Cadenas, Ca 95742</b>
Assessor's Parcel No. of Well site: Book <b>3210</b> Page <b>10</b> Parcel <b>028</b>	Owner's/Consultant's Well No.: <b>AV-2</b>	Telephone No.: <b>(916) 638-7276</b>

Estimated depth of completed well: ☐ Less than 50 ft. ☒ 50 to 300 ft. ☐ Over 300 ft.

Purpose of Well: ☐ Domestic ☐ Municipal/Industrial ☐ Agricultural ☒ \*Monitoring ☐ Cathodic Protection

\*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive air samples for analysis. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

**THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS**

Purpose of Monitoring Well: ☐ To comply with City or County Hazardous Materials Storage Permit Ordinance ☒ Exploration studies ☐ Other (specify): ☐ Extraction/Recovery

NAME OF BUSINESS AT WELL SITE: **ARCO Service Station**

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☒ No

If yes, give name of City or County:

Consultant's Name (Company): <b>Pacific Environmental Group</b> Address: <b>1601 Civic Center Dr. #202</b> City, State, Zip: <b>Santa Clara, Ca 95050</b> Telephone No.: <b>(408) 984-6536</b>	Type of monitoring device: <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Vadose Monitoring well use: <input type="checkbox"/> Depth <input type="checkbox"/> Quality <input type="checkbox"/> Chloride Vadose device installation: <input checked="" type="checkbox"/> Vapor <input type="checkbox"/> Interface <input type="checkbox"/> Suction Lysimeter Signature of Responsible Professional (No substitution of signature will be accepted): <b>D. J. W. W. W.</b> <b>CEG 1293</b> Registration No. Civil Engineer OR Certificate No. Engineering Geologist
---	--

**TOPOGRAPHIC FEATURES**

Well is to be constructed: ☐ In a public sidewalk ☐ In a public road ☐ On public property ☒ On private property ☐ On SCVWD property

Within 50 ft. of the top of a creek bank: ☐ Yes ☒ No

Within 50 ft. of a sanitary sewer: ☐ Yes ☒ No

Within 100 ft. of a pit privy, septic tank, leachfield: ☐ Yes ☒ No

Within 50 ft. of any existing well: ☐ Yes ☒ No

Within 150 ft. of a cesspool or seepage pit: ☐ Yes ☒ No

Other wells exist on this property: ☐ Yes ☒ No

Status: ☐ Active ☐ Inactive ☐ Abandoned

**CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:**

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

Signature of Well Owner/Agent: **Rhonda Barwick for Arco** Date: **4/10/91**  
 Signature of Driller/Agent: **Rhonda Barwick for W. Haz.** Date: **4/10/91**

**MONITORING WELL PLAN APPROVAL**

City/County: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

**IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 927-0710 Ext. 660. For weekends, holidays, after hours call (408) 395-8121 or (408) 927-0710.**

2

ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

proj. 3306103  
Do not fill in  
No. 382835

Notice of Intent No. \_\_\_\_\_  
Local Permit No. or Date 91W0795

State Well No. 0752W12P06A  
Other Well No. \_\_\_\_\_

(1) OWNER: Name ARCO  
Address PO Box 5311  
City San Mateo Ca ZIP 94402

(12) WELL LOG: Total depth 126.5 ft. Completed depth 65 ft.  
from ft. to ft. Formation (Describe by color, character, size or material)

(2) LOCATION OF WELL (See instructions):  
County Santa Clara Owners Well Number AV-2  
Well address if different from above 10625 N. DeGuzman  
Township Cupertino Range \_\_\_\_\_ Section \_\_\_\_\_  
Distance from cities, roads, railroads, fences, etc. \_\_\_\_\_

See Attached

(3) TYPE OF WORK  
New Well ☒ Deepening ☐  
Reconstruction ☐  
Reconditioning ☐  
Horizontal Well ☐  
Destruction ☐ (Describe destruction materials and procedures in item 12)

(4) PROPOSED USE:  
Domestic ☒  
Irrigation ☒  
Industrial ☐  
Test Well ☐  
Municipal ☐  
Other ☐ (Describe)

WELL LOCATION SKETCH

(5) EQUIPMENT:  
Rotary ☐ Reverse ☐  
Cable ☐ Air ☐  
Other ☒ Bucket ☐  
Hydram

(6) GRAVEL PACK:  
Yes ☒ No ☐ Size 20/40  
Diameter of bore 4.3  
Packed from 43 to 65 ft.

(7) CASING INSTALLED:  
Steel ☐ Plastic ☒ Concrete ☐

(8) PERFORATIONS:  
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	65	4	40	45	65	.020

(9) WELL SEAL:  
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 43 ft.  
Were strata sealed against pollution? Yes ☐ No ☐ Interval \_\_\_\_\_ ft.  
Method of sealing Cement

(10) WATER LEVELS:  
Depth of first water, if known \_\_\_\_\_ ft. N/A  
Standing level after well completion \_\_\_\_\_ ft.

(11) WELL TESTS:  
Was well test made? Yes ☐ No ☐ If yes, by whom? \_\_\_\_\_  
Type of test Pump ☐ Bailor ☐ Air lift ☐  
Depth to water at start of test \_\_\_\_\_ ft. At end of test \_\_\_\_\_ ft.  
Discharge \_\_\_\_\_ gal/min after \_\_\_\_\_ hours Water temperature \_\_\_\_\_  
Chemical analysis made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_  
Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

Work started \_\_\_\_\_ 19\_\_\_\_ Completed \_\_\_\_\_ 19\_\_\_\_

WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Signed West Hazen (Well Driller)  
NAME West Hazen  
Address 3233 Fitzgerald  
City Rancho Cordova ZIP 95742  
License No. CS7 554979 Date of this report 6-91



Well Number	Screened Interval (feet below ground surface)
AV-1	45 to 60
AV-2	45 to 65
AV-3	40 to 55
AV-4	39 to 54
AV-5	43 to 63

A Lonestar 2 x 12 sand pack was placed in the annular space across the screened interval and extends approximately 2 to 5 feet above the top of the screens. A bentonite and cement seal extends from the sand pack to the ground surface. A locking cap and protective vault box were installed on top of each well. The attached boring logs show well construction details.

#### Laboratory Analysis

Soil samples from the borings were analyzed for total petroleum hydrocarbons (calculated as gasoline), and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Soil samples from 5-foot intervals from each boring were submitted for analysis. The analytical method for determining the presence of total petroleum hydrocarbons (TPHg) is taken from EPA Methods 8015, 8020, and 5030 using the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and photo-ionization detector. The certified analytical reports are attached to this report.

#### FINDINGS

##### Subsurface Conditions

Soils encountered at the site consisted primarily of clayey sands, silty sands, poorly graded sands, and clayey gravels, two distinct and continuous clay/silt layers, and some discontinuous clay and silt layers (Figure 6). The depth of the borings ranged from 101-1/2 to 126-1/2 feet. The top of the first clay/silt layer occurred at different depths in each well ranging from 54 to 68 feet. The thickness of this layer ranged from approximately 3 to 13 feet. The second clay/silt layer occurred at depths ranging from 74 to 80 feet and was found to range in thickness from 1 to 16 feet. This second clay/silt layer was not found in AV-1.

Groundwater was not encountered in any of the borings and thus no groundwater monitoring wells were installed. Depth to groundwater data obtained from the

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
<div><div>SAND</div><div>BENTONITE</div><div>CEMENT GROUT</div></div>					2			SM	FILL; asphalt and base rock.
					4				SILTY SAND; dark yellowish brown; 15-25% silty fines; some clay; fine to coarse sand; 20-30% fine to coarse gravels; very dense; no product odor.
		Mst	0	PUSH	6				
					8				@10': 30-40% fine to coarse gravels; very dense; no product odor.
		Mst	0	>50	10				
					12				
					14				
		Mst	0	>50	16				@15': 20-30% silty fines; fine sand; no gravels; very dense; no product odor.
					18				
		Mst	0	>50	20				@20.5': 15-25% silty fines; fine to coarse sand; 5-15% fine to coarse gravels; very dense; no product odor.
					22				
					24				
		Mst	0	>50	26			CL	CLAY; dark yellowish brown; low to moderate plasticity; 25-35% fine to coarse sand; 5-10% fine gravels; hard; no product odor.
					28				
		Mst	0	>50	30			SM	SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 5-15% fine gravels; very dense; no product odor.
					32				
				34					
	Mst	0	>50	36				@35': very dense; no product odor.	
				38					
	Mst	80	50	40				@40': very dense; faint product odor.	
				42					
				44					

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-2

PAGE 2 OF 3

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

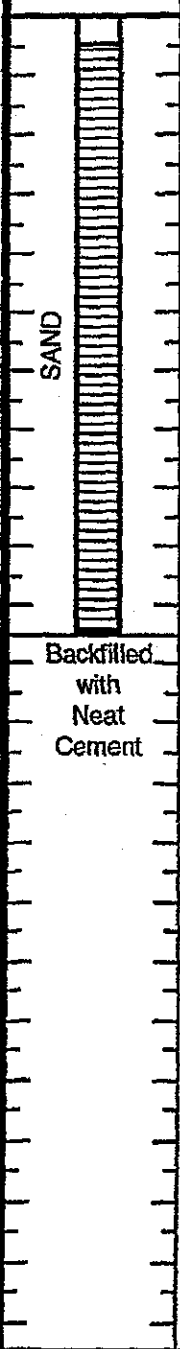
HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Mst	400	>50	46			SM	SILTY SAND - continued. @45': 25-35% silty fines; fine sand; very dense; strong product odor.
				48				
	Mst	400	47	50				@50': 15-25% silty fines; dense; strong product odor.
				52				
				54				
	Mst	350	>50	56				@55': fine to coarse sand, predominantly fine; very dense; strong product odor.
				58				
	Mst	300	>50	60			ML	SILT; olive brown; some clay; 30-40% fine sand; hard; moderate product odor.
				62				
				64				
	Mst	340	>50	66				@65': 35-45% fine sand; hard; moderate product odor.
				68				
	Mst	320	>50	70				@70': 20-30% fine sand; hard; no product odor.
				72				
	Mst	80	>50	74			SM	SILTY SAND; olive brown; 25-35% silty fines; fine sand.
				76				
				78				
	Mst	200	>50	80			CL	CLAY; olive brown; low to moderate plasticity; 20-30% fine to coarse sand; hard; no product odor.
				82				
				84				
	Mst	220	>50	86			ML	SILT; olive brown; some clay; 25-35% fine sand; hard; faint product odor.
				88			SM	SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 10-20% fine to coarse gravels; very dense; no product odor.





APN: 32610028  
10625 N De Anza Blvd  
Cupertino CA  
95014

Well Annotations- 7 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	07S02W12P002	86W0263	A611-B9	Other-Active	6115958	1947112
2	07S02W12P003	91W0794	AV-1	Other-Active	6115957	1947019
3	07S02W12P004	91W0796	AV-5	Other-Active	6115978	1947038
4	07S02W12P005	91W0797	AV-4	Other-Active	6115997	1947017
5	07S02W12P006	91W0793	AV-3	Other-Active	6115978	1946996
6	07S02W12P007	91W0795	AV-2	Other-Active	6115956	1947077
7	07S02W13F001	96W00124	A 1	Other-Active	6115961	1947058

Wells.shp

- Water Supply - Active
- Water Supply - Standby
- Water Supply - Inactive
- Extraction (Env) - Active
- Extraction (Env) - Inactive
- Other - Active
- Other - Inactive
- Abandoned
- Destroyed
- Status Undetermined

Parcels.shp

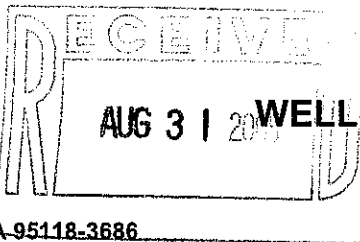
Fuelleak.shp

VALFLOOR.SHP

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

Approximate Scale

25 0 25 50 Feet



# WELL DESTRUCTION APPLICATION

FC 198w (12-16-02)

Page 1 of 4

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00 568

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station #6111	
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 10625 North DeAnza Blvd.	
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Cupertino, CA	
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 326 Page: 10 Parcel: 028	
<b>Consultant:</b> URS Corporation		<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800		<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612		<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 / John McCain		<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.	

**All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

## Well Information

<b>Well Registration No.:</b> 07S02W12P006	<b>Owner/Consultant Well No.:</b> AV-3	<b>Original Well Construction Permit No.:</b> 91W0793
<b>Well Casing Depth:</b> 55'	<b>Total Boring Depth:</b> 101.5'	<b>Well Casing Diameter:</b> 2"

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station 6111

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

**Well Description:**

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Wall ☐ Pit Well

**Well Type:** check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☒ Vapor Extraction

☒ Monitoring ☐ Inclinator ☐ Groundwater ☒ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☒ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

## Additional Questions For Water Producing Wells

Does the well have:

- Outer conductor casing? ☐ Yes ☐ No
- Annular cement seal outside of casing at surface? ☐ Yes ☐ No
- A S.C.V.W.D. water meter attached? ☐ Yes ☐ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☐ Hollow Stem Auger ☐ Other:

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

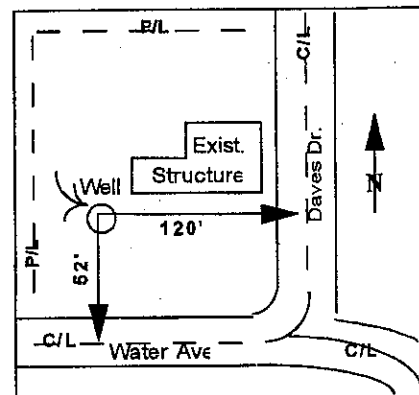
Site Plan

WELL LOCATION

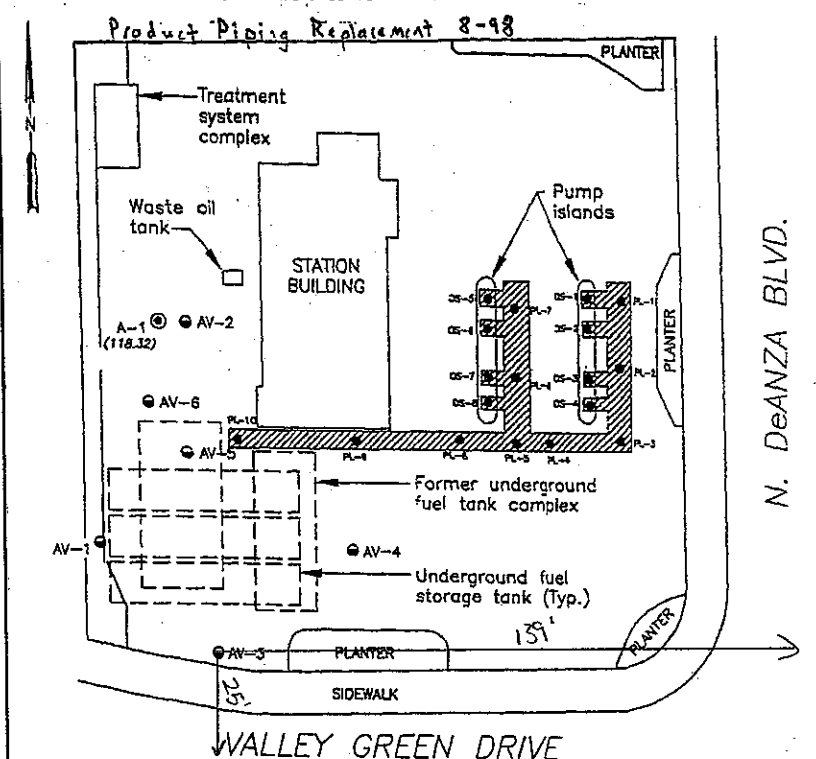
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



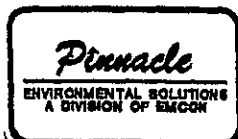
ATTACHMENT 1D



EXPLANATION

- ⊙ Groundwater monitoring well
- Vadose zone monitoring well
- Soil Sample Location
- ▨ Product Piping Trench

0 30 60  
SCALE IN FEET



DATE OCT. 1998  
DWN KAS  
APP  
REV 0  
PROJECT NO. 20805-205.001

FIGURE 1  
ARCO PRODUCTS COMPANY  
SERVICE STATION 6111  
CUPERTINO, CALIFORNIA  
GROUNDWATER DATA SUMMARY  
SECOND QUARTER 1998

Please allow 10 working days to process this application.

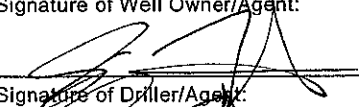


Please describe, in detail, the proposed destruction method\*: \_\_\_\_\_

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

**NOTE:** All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Jacob Henry/ URS for Atlantic Richfield Co	Date: 8-30-05
Signature of Driller/Agent: 	Print Name: Jacob Henry/ URS for Gregg Drilling	Date: 8-30-05
Signature of Consultant (if any): 	Print Name: Jacob Henry/ URS	Date: 8-30-05

**DISTRICT USE ONLY**

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).


**NOTE:** Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 55 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). **NOTE:** Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00568	Date issued: 9-14-05	Expiration Date: 3-14-06	Driller's Log No.: 029736

Please allow 10 working days to process this application.



**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.

Well Number	Screened Interval (feet below ground surface)
AV-1	45 to 60
AV-2	45 to 65
AV-3	40 to 55
AV-4	39 to 54
AV-5	43 to 63

A Lonestar 2 x 12 sand pack was placed in the annular space across the screened interval and extends approximately 2 to 5 feet above the top of the screens. A bentonite and cement seal extends from the sand pack to the ground surface. A locking cap and protective vault box were installed on top of each well. The attached boring logs show well construction details.

#### Laboratory Analysis

Soil samples from the borings were analyzed for total petroleum hydrocarbons (calculated as gasoline), and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Soil samples from 5-foot intervals from each boring were submitted for analysis. The analytical method for determining the presence of total petroleum hydrocarbons (TPHg) is taken from EPA Methods 8015, 8020, and 5030 using the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and photo-ionization detector. The certified analytical reports are attached to this report.

#### FINDINGS

##### Subsurface Conditions

Soils encountered at the site consisted primarily of clayey sands, silty sands, poorly graded sands, and clayey gravels, two distinct and continuous clay/silt layers, and some discontinuous clay and silt layers (Figure 6). The depth of the borings ranged from 101-1/2 to 126-1/2 feet. The top of the first clay/silt layer occurred at different depths in each well ranging from 54 to 68 feet. The thickness of this layer ranged from approximately 3 to 13 feet. The second clay/silt layer occurred at depths ranging from 74 to 80 feet and was found to range in thickness from 1 to 16 feet. This second clay/silt layer was not found in AV-1.

Groundwater was not encountered in any of the borings and thus no groundwater monitoring wells were installed. Depth to groundwater data obtained from the

LOCATION MAP

NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-3  
PAGE 1 OF 3

PROJECT NO. 330-61.03  
LOGGED BY: JC/JN  
DRILLER: WHM  
DRILLING METHOD: HSA  
SAMPLING METHOD: CAL MOD  
CASING TYPE: Sch 40 PVC  
SLOT SIZE: 0.020"  
GRAVEL PACK: 2 x 12 SAND

CLIENT: ARCO  
DATE DRILLED: 4-17-91  
LOCATION: De Anza & Valley Green  
HOLE DIAMETER: 8"  
HOLE DEPTH: 101.5'  
WELL DIAMETER: 2"  
WELL DEPTH: 55'  
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2				FILL; asphalt.
				4			SC-GC	CLAYEY SAND, CLAYEY GRAVEL; yellowish brown; 10-15% clayey fines; some silt; 25-35% gravel and cobbles; very dense; no product odor.
	Mst	0	PUSH	6				@ 10': very dense; no product odor.
	Mst	1	>50	10				
				12			SM	SILTY SAND; strong brown; 20-25% silty fines; predominantly fine sand; trace coarse sand; very dense; no product odor.
	Mst	0	>50	16				@ 19': yellowish brown; 10-15% silty fines; fine to coarse sand; 10-15% gravel; very dense; no product odor.
	Mst	0	>50	20				@ 25': very dense; no product odor.
	Mst	1	>50	26				@ 30': very dense; no product odor.
	Mst	1	>50	30				@ 35': greenish gray; very dense; no product odor.
	Mst	7	>50	36				@ 40': very dense; faint product odor.
	Mst	80	>50	40				
				42				
				44				

## LOCATION MAP

See Page One

## PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-3

PAGE 2 OF 3

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:


HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Mst	250	>50	46			SM	SILTY SAND - continued. @45': strong brown; 25-35% silty fines; fine sand; trace coarse sand; dense; moderate product odor.
				48				
	Mst	280	>50	50				@50': interbedded poorly graded sand; very dense moderate product odor.
				52				
				54				
	Mst	60	>50	56			ML	SILT; olive brown; 15-25% clayey fines; 10-20% fine sand; hard; faint product odor.
				58				
				60			SM	SILTY SAND; olive brown; 10-20% silty fines; fine to coarse sand; 5-10% fine gravels; very dense; faint product odor.
	Mst	6.0	>50	62				
				64				
	Mst	2.8	>50	66				@65': 20-30% silty fines; 5-15% fine to coarse gravels; very dense; no product odor.
				68				
	Mst	5.0	>50	70				@70': some clay; 30-40% silty fines; fine to coarse sand; predominantly fine sand; very dense; no product odor.
				72				
				74			ML	SILT; olive brown; some clay; 20-30% fine sand; hard; no product odor.
	Mst	4.0	>50	76				
				78				
	Mst	15.5	>50	80				@80': hard; no product odor.
				82				
				84				
	Mst	5.0	>50	86				@85': 0-5% coarse gravels.
				88				

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-3

PAGE 3 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement	Mst	15	>50	90			ML SM	SILT - continued. SILTY SAND; olive brown; 10-20% silty fines; fine to coarse sand, predominantly fine; very dense; no product odor.
	Mst	1	>50	92				
	Mst	1	>50	94				@95': very dense; no product odor.
	Mst	1	>50	96				
	Mst	1	>50	98				
	Mst	1	>50	100				@100': some clay; very dense; no product odor.
				102				
				104				
				106				
				108				
				110				
				112				
				114				
				116				
				118				
				120				
				122				
				124				
				126				
				128				
				130				
				132				
								BOTTOM OF BORING AT 101.5'

Santa Clara Valley Water District



# WELL INSPECTION COMPLETION NOTICE

FC 158A (07-26-89) (DP 4-901)

From: WELL SECTION	Date: 4-23-91	Permit No.: 91W0793
Inspector: Bill Cameron	Date of Inspection: 4-18-91	Well Registration No.: 0752W12P05A
Well Owner: ARCO Products		
Address of Well Site: 10625 N. De Anza Blvd.		City or County: Cupertino
Drilling Company: West Haz Mat	Consultant: Pacific Env. group	

## PURPOSE OF WELL:

- |   |  |
|---|--|
| <input type="checkbox"/> Domestic             | <input checked="" type="checkbox"/> *Monitoring Well Use |
| <input type="checkbox"/> Agricultural         | <input checked="" type="checkbox"/> *Vadose              |
| <input type="checkbox"/> Municipal/Industrial | <input type="checkbox"/> *Groundwater                    |
| <input type="checkbox"/> Cathodic Protection  | <input type="checkbox"/> *Other                          |

- Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
- Depth of Surface Annular Seal = 38'

Comments: TD = 101.5 back filled to SS1 Hollow Stem  
 TS = 38' neat cement  
 Bent = 2'

Distribution: White - Well Section Yellow - Water Revenue Pink - Permittee Goldenrod - City/County

1

Santa Clara Valley Water District

5750 Almaden Expressway, San Jose, CA 95118 (408) 265-2600

# WELL CONSTRUCTION APPLICATION

FC 156 (12-04-89) (DP 4-001)

project 330-41.03

TO BE COMPLETED BY DISTRICT		
District Permit No.: <b>91W0793</b>	Date Issued: <b>4-11-91</b>	Well Registration No.: <b>07SAW12P05A</b>
Geologic Setting: <b>3</b>	Expiration Date: <b>10-11-91</b>	Driller's Log No.: <b>382833</b>

TO BE COMPLETED BY OWNER AND DRILLER		
Property Owner: <b>ARCO Products</b>	Well Owner (if different):	Drilling Co.: <b>West Hazmat</b>
Address: <b>PO Box 5811</b>	Address of Well Site: <b>10425 N. De Anza Blvd.</b>	Driller's Contractors License Number (C-57 Req'd): <b>057-554979</b>
City, State, Zip: <b>San Mateo, Ca</b>	City, State, Zip: <b>Cupertino, Ca</b>	Address: <b>3233 Fitzgerald</b>
Telephone No.:	Telephone No.:	City, State, Zip: <b>Rancho Calada, Ca 95742</b>

Assessor's Parcel No. of Well site: Book <b>326</b> Page <b>10</b> Parcel <b>028</b>	Owner's/Consultant's Well No.: <b>A-3 AV-3</b>	Telephone No.: <b>(916) 638-7276</b>
---	---	---

Estimated depth of completed well: ☐ Less than 50 ft. ☒ 50 to 300 ft. ☐ Over 300 ft.

Purpose of Well: ☐ Domestic ☐ Municipal/Industrial ☐ Agricultural ☒ \*Monitoring ☐ Cathodic Protection

\*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive air samples for analysis. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

**THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS**

Purpose of Monitoring Well: ☐ To comply with City or County Hazardous Materials Storage Permit Ordinance ☒ Exploration studies ☐ Extraction/Recovery

☐ Other (specify):

NAME OF BUSINESS AT WELL SITE: **ARCO Service Station**

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☐ No

If yes, give name of City or County:

Consultant's Name (Company): <b>Pacific Environmental Group</b>	Type of monitoring device: <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Vadose
Address: <b>1601 Civic Center Dr. #202</b>	Monitoring well use: <input checked="" type="checkbox"/> Depth <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Chloride
City, State, Zip: <b>Santa Clara, Ca 95050</b>	Vadose device installation: <input type="checkbox"/> Vapor <input type="checkbox"/> Interface <input type="checkbox"/> Suction Lysimeter
Telephone No.: <b>(408) 984-6536</b>	Signature of Responsible Professional (No substitution of signature will be accepted) <b>CEG/293</b>
	Registration No. Civil Engineer OR Certificate No. Engineering Geologist

**TOPOGRAPHIC FEATURES**

Well is to be constructed: ☐ In a public sidewalk ☐ In a public road ☐ On public property ☒ On private property ☐ On SCVWD property

Within 50 ft. of the top of a creek bank ☐ Yes ☒ No Within 50 ft. of any existing well ☐ Yes ☒ No

Within 50 ft. of a sanitary sewer ☐ Yes ☒ No Within 150 ft. of a cesspool or seepage pit ☐ Yes ☒ No

Within 100 ft. of a pit privy, septic tank, leachfield ☐ Yes ☒ No Other wells exist on this property ☐ Yes ☒ No

Status: ☐ Active ☐ Inactive ☐ Abandoned

**CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:**

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

Signature of Well Owner/Agent <b>Glenda Parvick for Arco</b>	Date <b>4/10/91</b>
Signature of Driller/Agent <b>Glenda Parvick for W. Haz</b>	Date <b>4/10/91</b>

**MONITORING WELL PLAN APPROVAL**

City/County: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

**IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 827-0710 Ext. 660. For weekends, holidays, after hours call (408) 395-8121 or (408) 827-0710.**



ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

proj. 330-61.03

Do not fill in

No. 382833

State Well No. 07SAW12P05A

Notice of Intent No. 91W0793  
Local Permit No. or Date 91W0793

Other Well No.

(1) OWNER: Name APCO  
Address PO Box 5811  
City San Mateo, Ca ZIP 94402

(12) WELL LOG: Total depth 101.5 ft. Completed depth 55 ft.  
from ft. to ft. Formation (Describe by color, character, size or material)

(2) LOCATION OF WELL (See instructions):  
County Santa Clara Owner's Well Number AV-3  
Well address if different from above 10028 N. De Anza  
Township Cupertino Range Section  
Distance from cities, roads, railroads, fences, etc.

See Attached Boring Log.

SEE ATTACHED

(3) TYPE OF WORK:  
New Well ☒ Deepening ☐  
Reconstruction ☐  
Reconditioning ☐  
Horizontal Well ☐  
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:  
Domestic ☐  
Irrigation ☐  
Industrial ☐  
Test Well ☐  
Municipal ☐  
Other ☒ (Describe) Various

WELL LOCATION SKETCH

(5) EQUIPMENT:

Rotary ☐ Reverse ☐  
Cable ☐ Air ☐  
Other ☒ Bucket ☐  
Hollow Stem

(6) GRAVEL PACK:

Yes ☒ No ☐ Size 20/40  
Diameter of bore 38  
Packed from 38 to 55 ft.

(7) CASING INSTALLED:

Steel ☐ Plastic ☒ Concrete ☐

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dis. in.	Cage or Wall	From ft.	To ft.	Slot size
0	35	2	40	40	55	.020

(9) WELL SEAL:

Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 38 ft.

Were struts sealed against pollution? Yes ☒ No ☐ Interval

Method of sealing cement

(10) WATER LEVELS:

Depth of first water, if known Na ft.

Standing level after well completion

(11) WELL TESTS:

Was well test made? Yes ☐ No ☐ If yes, by whom?

Type of test Pump ☐ Bailor ☐ Air lift ☐

Depth to water at start of test ft. At end of test ft.

Discharge gal/min after hours Water temperature

Chemical analysis made? Yes ☐ No ☒ If yes, by whom?

Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

Work started 19 Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed Phanick (Well Driller)

NAME West Hing (Person, firm, or corporation) (Typed or printed)

Address 3233 Megala

City Rancho Calva ZIP 95742

License No. CS7 554779 Date of this report 6-91





# 10625 N. DeAnza Blvd



Well Annotations- 7 Wells Selected

APN: 32610028  
10625 N De Anza Blvd  
Cupertino CA  
95014

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	07S02W12P002	86W0263	A611-B9	Other-Active	6115958	1947112
2	07S02W12P003	91W0794	AV-1	Other-Active	6115957	1947019
3	07S02W12P004	91W0796	AV-5	Other-Active	6115978	1947038
4	07S02W12P005	91W0797	AV-4	Other-Active	6115997	1947017
5	07S02W12P006	91W0793	AV-3	Other-Active	6115978	1946996
6	07S02W12P007	91W0795	AV-2	Other-Active	6115956	1947077
7	07S02W13F001	96W00124	A 1	Other-Active	6115961	1947058

- Wells.shp
- Water Supply - Active
  - Water Supply - Standby
  - Water Supply - Inactive
  - Extraction (Env) - Active
  - Extraction (Env) - Inactive
  - Other - Active
  - Other - Inactive
  - Abandoned
  - Destroyed
  - Status Undetermined
- Parcels.shp
- Fuelleak.shp
- VALFLOOR.SHP
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

Approximate Scale

25 0 25 50 Feet



5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D 00 563

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station #6111	
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 10625 North DeAnza Blvd.	
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Cupertino, CA	
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 326 Page: 10 Parcel: 02 8	
<b>Consultant:</b> URS Corporation		<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800		<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612		<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 / John McCain		<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

Well Information

<b>Well Registration No.:</b> 07S62W12P005	<b>Owner/Consultant Well No.:</b> AV-4	<b>Original Well Construction Permit No.:</b> 91W0797
<b>Well Casing Depth:</b> 54'	<b>Total Boring Depth:</b> 101.5'	<b>Well Casing Diameter:</b> 2"

THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station 6111

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

**Well Description:**

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Wall ☐ Pit Well

**Well Type:** check all that apply

☐ Water Producing ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☒ Vapor Extraction

☒ Monitoring ☐ Inclinator ☐ Groundwater ☒ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☒ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

Additional Questions For Water Producing Wells

Does the well have:

1. Outer conductor casing? ☐ Yes ☐ No

2. Annular cement seal outside of casing at surface? ☐ Yes ☐ No

3. A S.C.V.W.D. water meter attached? ☐ Yes ☐ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☐ Hollow Stem Auger ☐ Other:

IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

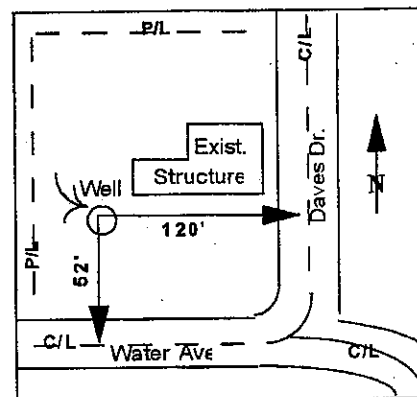
Site Plan

WELL LOCATION

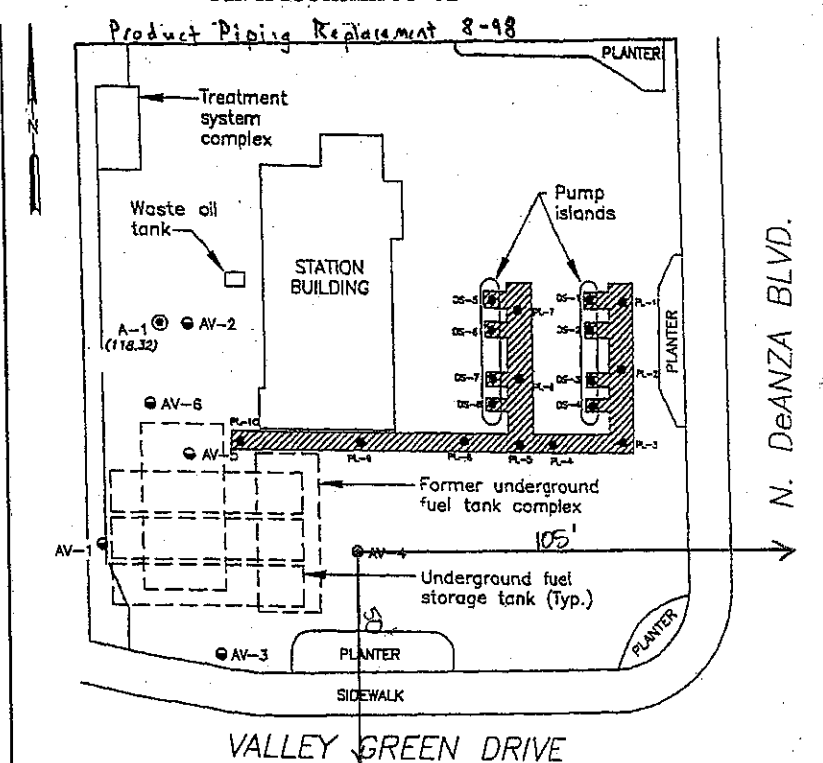
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



ATTACHMENT 1D



EXPLANATION

- ⊙ Groundwater monitoring well
- Vadose zone monitoring well
- Soil Sample Location
- ▨ Product Piping Trench

0 30 60  
SCALE IN FEET



DATE OCT. 1998  
DWN. KAG  
APP. \_\_\_\_\_  
REV. 0  
PROJECT NO. 20605-205.001

FIGURE 1  
ARCO PRODUCTS COMPANY  
SERVICE STATION 6111  
CUPERTINO, CALIFORNIA  
GROUNDWATER DATA SUMMARY  
SECOND QUARTER 1998

Please allow 10 working days to process this application.



Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

**NOTE:** All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Jacob Henry/ URS for Atlantic Richfield Co	Date: 8-30-05
Signature of Driller/Agent: 	Print Name: Jacob Henry/ URS for Gregg Drilling	Date: 8-30-05
Signature of Consultant (if any): 	Print Name: Jacob Henry/ URS	Date: 8-30-05

**DISTRICT USE ONLY**

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

**NOTE:** Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 54 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). **NOTE:** Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00563	Date Issued: 9-14-05	Expiration Date: 3-14-06	Driller's Log No.: 029731

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

**Please allow 10 working days to process this application.**

Santa Clara Valley Water District



WELL INSPECTION COMPLETION NOTICE

FC 158A (07-26-89) (DP 4-901)

From: WELL SECTION	Date: 4/18/91	Permit No: 91W0797
Inspector: MICHAEL HELLEC	Date of Inspection: 4/17/91	Well Registration No: AV-4 0752W12P04A
Well Owner: ARLO		
Address of Well Site: 10625 N DEANZA BLVD.		City or County: CUPERTINO
Drilling Company: WEST HAZMAT		Consultant: PACIFIC ENVIRONMENTAL GROUP

PURPOSE OF WELL:

- |   |  |
|---|--|
| <input type="checkbox"/> Domestic             | <input checked="" type="checkbox"/> *Monitoring Well Use |
| <input type="checkbox"/> Agricultural         | <input checked="" type="checkbox"/> *Vadose              |
| <input type="checkbox"/> Municipal/Industrial | <input checked="" type="checkbox"/> *Groundwater         |
| <input type="checkbox"/> Cathodic Protection  | <input type="checkbox"/> *Other                          |

- Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
- Depth of Surface Annular Seal = 36'

Comments: TD = 101 1/2' SAND UP TO 36' 10 SACK SLURRY  
 BEAT CEMENT @ 101 1/2' - 45' BENTONITE = 2' HOLLOW STEM  
 SCREEN @ 54' - 39'

Distribution: White - Well Section Yellow - Water Revenue Pink - Permittee Goldenrod - City/County

①

Santa Clara Valley Water District  
5750 Almaden Expressway, San Jose, CA 95118 (408) 265-2600

WELL CONSTRUCTION APPLICATION  
FC 158 (12-08-89) (DP 4-901)

project 330-41.03

TO BE COMPLETED BY DISTRICT		
District Permit No.: 91W0797	Date Issued: 4-11-91	Well Registration No.: 07SZW12P04A
Geologic Setting: 3	Expiration Date: 10-1-91	Driller's Log No.: 382837

TO BE COMPLETED BY OWNER AND DRILLER		
Property Owner: ARCO Products	Well Owner (if different):	Drilling Co.: West Hazmat
Address: PO BOX 5811	Address of Well Site: 10625 N. De Anza Blvd.	Driller's Contractors License Number (C-57 Req'd): C57-554979
City, State, Zip: San Mateo, Ca	City, State, Zip: Cupertino, Ca	Address: 3233 Fitzgerald
Telephone No.:	Telephone No.:	City, State, Zip: Rancho Cordova, Ca 95742
Assessor's Parcel No. of Well site: Book 326 Page 10 Parcel 028	Owner's/Consultant's Well No.: AV-4	Telephone No.: (916) 638-7276

Estimated depth of completed well: ☐ Less than 50 ft. ☒ 50 to 300 ft. ☐ Over 300 ft.

Purpose of Well: ☐ Domestic ☐ Municipal/Industrial ☐ Agricultural ☒ \*Monitoring ☐ Cathodic Protection

\*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive air samples for analysis. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

**THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS**

Purpose of Monitoring Well: ☐ To comply with City or County Hazardous Materials Storage Permit Ordinance ☒ Exploration studies ☐ Extraction/Recovery

☐ Other (specify):

NAME OF BUSINESS AT WELL SITE: ARCO Service Station

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☐ No

If yes, give name of City or County:

Consultant's Name (Company):  
Pacific Environmental Group

Address:  
1601 Civic Center Dr. #202

City, State, Zip:  
Santa Clara, Ca 95050

Telephone No.:  
(408) 984-6536

Type of monitoring device: ☐ Groundwater ☒ Vadose

Monitoring well use: ☐ Depth ☐ Quality ☐ Chloride

Vadose device installation: ☒ Vapor ☐ Interface ☐ Suction Lysimeter

Signature of Responsible Professional  
(No substitution of signature will be accepted)  
[Signature]  
CEG1293

Registration No. Civil Engineer OR Certificate No. Engineering Geologist

**TOPOGRAPHIC FEATURES**

Well is to be constructed: ☐ In a public sidewalk ☐ In a public road ☐ On public property ☒ On private property ☐ On SCVWD property

Within 50 ft. of the top of a creek bank: ☐ Yes ☒ No

Within 50 ft. of a sanitary sewer: ☐ Yes ☒ No

Within 100 ft. of a pit privy, septic tank, leachfield: ☐ Yes ☒ No

Within 50 ft. of any existing well: ☐ Yes ☒ No

Within 150 ft. of a cesspool or seepage pit: ☐ Yes ☒ No

Other wells exist on this property: ☐ Yes ☒ No

Status: ☐ Active ☐ Inactive ☐ Abandoned

**CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:**

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

[Signature] 4/10/91  
Signature of Well Owner/Agent Date

[Signature] 4/10/91  
Signature of Driller/Agent Date

**MONITORING WELL PLAN APPROVAL**

City/County: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

**IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 927-0710 Ext. 660. For weekends, holidays, after hours call (408) 395-8121 or (408) 927-0710.**



ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

proj. 330-61.03

Do not fill in

No. 382837

Notice of Intent No. \_\_\_\_\_  
Local Permit No. or Date 91020797

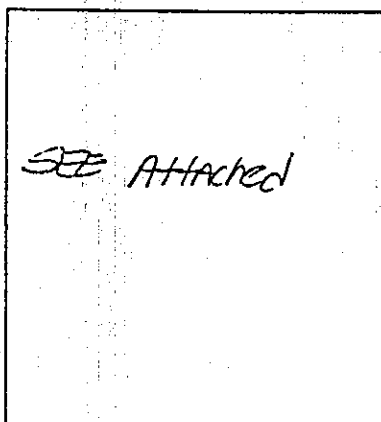
State Well No. 0752W12P04A  
Other Well No. \_\_\_\_\_

(1) OWNER: Name ARCO  
Address PO Box 5811  
City San Mateo Ca ZIP 94402

(12) WELL LOG: Total depth 101.5 ft. Completed depth 54 ft.  
from ft. to ft. Formation (Describe by color, character, size or material)

(2) LOCATION OF WELL (See instructions):  
County Santa Clara Owner's Well Number AV-4  
Well address if different from above 10625 N. 1st Ave  
Township Cupertino Range \_\_\_\_\_ Section \_\_\_\_\_  
Distance from cities, roads, railroads, fences, etc. \_\_\_\_\_

SEE ATTACHED Boring Log



(3) TYPE OF WORK  
New Well ☒ Deepening ☐  
Reconstruction ☐  
Reconditioning ☐  
Horizontal Well ☐  
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:  
Domestic ☒  
Irrigation ☒  
Industrial ☐  
Test Well ☐  
Municipal ☐  
Other ☒ (Describe) Vadose

WELL LOCATION SKETCH

(5) EQUIPMENT:  
Rotary ☐ Reverse ☐  
Cable ☐ Air ☐  
Other ☒ Bucket ☐  
Hollow Stem

(6) GRAVEL PACK:  
Yes ☒ No ☐ Size 2x12  
Diameter of bore 8"  
Packed from 36 to 54 ft.

(7) CASING INSTALLED:  
Steel ☐ Plastic ☒ Concrete ☐

(8) PERFORATIONS:  
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	54	2	40	40	54	.020

(9) WELL SEAL:  
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 36 ft.  
Were struts sealed against pollution? Yes ☐ No ☐ Interval \_\_\_\_\_ ft.  
Method of sealing Cement grout

(10) WATER LEVELS:  
Depth of first water, if known \_\_\_\_\_ ft.  
Standing level after well completion N/A ft.

(11) WELL TESTS:  
Was well test made? Yes ☐ No ☐ If yes, by whom? \_\_\_\_\_  
Type of test \_\_\_\_\_ Pump ☐ Bailor ☐ Air lift ☐  
Depth to water at start of test \_\_\_\_\_ ft. At end of test \_\_\_\_\_ ft.  
Discharge \_\_\_\_\_ gal/min after \_\_\_\_\_ hours Water temperature \_\_\_\_\_  
Chemical analysis made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_  
Was electric log made? Yes ☐ No ☐ If yes, attach copy to this report

Work started \_\_\_\_\_ 19\_\_\_\_ Completed \_\_\_\_\_ 19\_\_\_\_

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed Kenneth J. [Signature] (Well Driller)

NAME Wet. Kenneth (Typed or printed)

Address 3233 Palmdale

City Palmdale ZIP 93572

License No. 554979 Date of this report 6-91



Well Number	Screened Interval (feet below ground surface)
AV-1	45 to 60
AV-2	45 to 65
AV-3	40 to 55
AV-4	90 <sup>39</sup> to 54
AV-5	43 to 63

A Lonestar 2 x 12 sand pack was placed in the annular space across the screened interval and extends approximately 2 to 5 feet above the top of the screens. A bentonite and cement seal extends from the sand pack to the ground surface. A locking cap and protective vault box were installed on top of each well. The attached boring logs show well construction details.

#### Laboratory Analysis

Soil samples from the borings were analyzed for total petroleum hydrocarbons (calculated as gasoline), and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Soil samples from 5-foot intervals from each boring were submitted for analysis. The analytical method for determining the presence of total petroleum hydrocarbons (TPHg) is taken from EPA Methods 8015, 8020, and 5030 using the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and photo-ionization detector. The certified analytical reports are attached to this report.

#### FINDINGS

##### Subsurface Conditions

Soils encountered at the site consisted primarily of clayey sands, silty sands, poorly graded sands, and clayey gravels, two distinct and continuous clay/silt layers, and some discontinuous clay and silt layers (Figure 6). The depth of the borings ranged from 101-1/2 to 126-1/2 feet. The top of the first clay/silt layer occurred at different depths in each well ranging from 54 to 68 feet. The thickness of this layer ranged from approximately 3 to 13 feet. The second clay/silt layer occurred at depths ranging from 74 to 80 feet and was found to range in thickness from 1 to 16 feet. This second clay/silt layer was not found in AV-1.

Groundwater was not encountered in any of the borings and thus no groundwater monitoring wells were installed. Depth to groundwater data obtained from the

<div> <div> LOCATION MAP  </div> <div> <b>PACIFIC ENVIRONMENTAL GROUP, INC.</b>  PROJECT NO. 330-61.03  LOGGED BY: JC  DRILLER: WHM  DRILLING METHOD: HSA  SAMPLING METHOD: CAL MOD  CASING TYPE: Sch 40 PVC  SLOT SIZE: 0.020"  GRAVEL PACK: 2 x 12 SAND </div> <div> WELL/BORING NO. AV-4  PAGE 1 OF 3  CLIENT: ARCO  DATE DRILLED: 4-16-91  LOCATION: De Anza &amp; Valley Green  HOLE DIAMETER: 8"  HOLE DEPTH: 101.5'  WELL DIAMETER: 2"  WELL DEPTH: 54'  CASING STICKUP: NA </div> </div>								
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT GROUT				2			SC-GC	FILL; asphalt.
				4				CLAYEY SAND to CLAYEY GRAVEL; yellowish brown; 10-15% clayey fines fine to coarse sand; 40-45% gravel and cobbles; very dense; no product odor.
	Mst	0	PUSH	6				
				8				
	Mst	0	>50	10			SM	SILTY SAND; yellowish brown; 10-15% silty fines; fine to coarse sand; 25-35% gravel; very dense; no product odor.
				12				
	Mst	0	>50	16				@ 15': 20-25% silty fines; fine to coarse sand; predominantly fine sand; 5-10% gravel; very dense; no product odor.
				18				
	Mst	0	>50	20				@ 20': yellowish brown; 10-15% silty fines; fine to coarse sand; 10-15% fine gravel; very dense; no product odor.
				22				
BENTONITE				24				
	Mst	0	>50	26				@ 25': very dense; no product odor.
				28				
	Mst	0	>50	30				@ 30': very dense; no product odor.
				32				
				34				
	Mst	1	>50	36				@ 35': very dense; no product odor.
				38				
				40				@ 40': very dense; faint product odor.
				42				
SAND				44			SM-ML	SILTY SAND; strong brown; 40-45% silt; very fine sand; very dense; faint product odor.

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-4

PAGE 2 OF 3

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

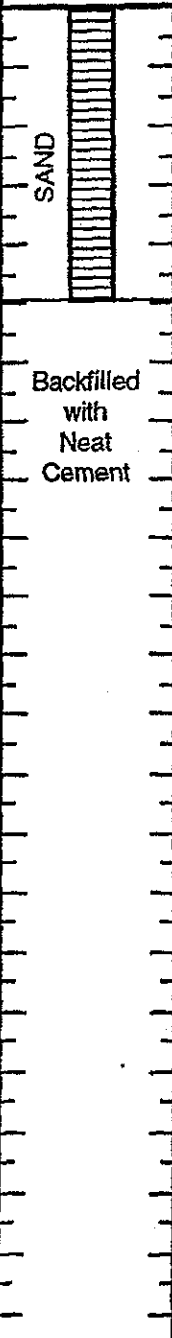
HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/8')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	V. Mst	130	>50	46			SM-ML	SILTY SAND - continued. @ 45': very dense; faint product odor.
				48				
	V. Mst	300	>50	50				@ 50': very dense; moderate product odor.
				52				
				54				
	Mst	35	>50	56				@ 55': very dense; faint product odor.
				58				
				60			SM	SILTY SAND; yellowish brown; 5-10% silty fines; fine to coarse sand; 25-35% gravel; very dense; faint product odor.
	Mst	0	>50	62				
				64				
	Mst	3	>50	66				@ 65': very dense; no product odor.
				68				
	Mst	3	>50	70			CL	CLAY; strong brown; low to moderate plasticity; 30-40% silt and very fine sand; trace coarse sand; hard; no product odor.
				72			SM	SILTY SAND; yellowish brown; 10-15% clay and silt; fine to coarse sand; 20-25% gravel; very dense; no product odor.
				74				
	Mst	11	>50	76				@ 75': very dense; no product odor.
				78				
	Mst	15	>50	80				@ 80': interbedded clay; strong brown; very dense; no product odor.
				82				
	Mst	10	>50	84				
				86				@ 85': yellowish brown; 20-30% silty fines; 5-10% gravel; very dense; no product odor.
				88				

LOCATION MAP   <div style="text-align: center; font-size: 1.2em;">See Page One</div>		PACIFIC ENVIRONMENTAL GROUP, INC.				WELL/BORING NO. AV-4 PAGE 3 OF 3		
		PROJECT NO. 330-61.03 LOGGED BY: DRILLER: DRILLING METHOD: SAMPLING METHOD: CASING TYPE: SLOT SIZE: GRAVEL PACK:				CLIENT: DATE DRILLED: LOCATION: HOLE DIAMETER: HOLE DEPTH: WELL DIAMETER: WELL DEPTH: CASING STICKUP:		
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement	Mst	3	>50	90			SM	SILTY SAND - continued.
				92				@90': yellowish brown; 10-15% silty fines; fine to coarse sand; 20-25% gravel; very dense; no product odor.
	Mst	7	50	96				@95': as above; with interbedded clayey sand; very dense; no product odor.
				98				
	Mst	4	50	100				@100': very dense; no product odor.
				102				
				104				
				106				
				108				
				110				
				112				
				114				
				116				
				118				
				120				
				122				
				124				
				126				
				128				
				130				
			132					
								BOTTOM OF BORING AT 101.5'



# 10625 N. DeAnza Blvd



Well Annotations- 7 Wells Selected

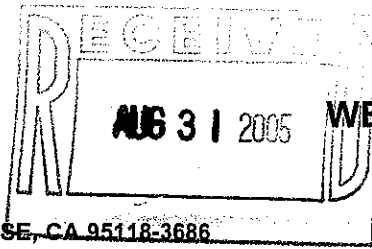
APN: 32610028  
10625 N De Anza Blvd  
Cupertino CA  
95014

No	Well_nbr	Permit	Consulnum	Status	Easting	Northing
1	07S02W12P002	86W0263	A611-B9	Other-Active	6115958	1947112
2	07S02W12P003	91W0794	AV-1	Other-Active	6115957	1947019
3	07S02W12P004	91W0796	AV-5	Other-Active	6115978	1947038
4	07S02W12P005	91W0797	AV-4	Other-Active	6115997	1947017
5	07S02W12P006	91W0793	AV-3	Other-Active	6115978	1946996
6	07S02W12P007	91W0795	AV-2	Other-Active	6115956	1947077
7	07S02W13F001	96W00124	A 1	Other-Active	6115961	1947058

- Wells.shp
- ⊕ Water Supply - Active
  - ⊞ Water Supply - Standby
  - Water Supply - Inactive
  - ⊕ Extraction (Env) - Active
  - ⊞ Extraction (Env) - Inactive
  - ⊕ Other - Active
  - ⊞ Other - Inactive
  - \* Abandoned
  - ⊕ Destroyed
  - ▲ Status Undetermined
- Parcels.shp
- ▲ Fuelleak.shp
- VALFLOOR.SHX
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

Approximate Scale

25 0 25 50 Feet



# WELL DESTRUCTION APPLICATION

FC 198w (12-16-02)

Page 1 of 4

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D 00564

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station #6111	
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 10625 North DeAnza Blvd.	
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Cupertino, CA	
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 326 Page: 10 Parcel: 028	
<b>Consultant:</b> URS Corporation		<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800		<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612		<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 / John McCain		<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.	

**All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

## Well Information

<b>Well Registration No.:</b> 07502 W12 P004	<b>Owner/Consultant Well No.:</b> AV-5	<b>Original Well Construction Permit No.:</b> 91W0796
<b>Well Casing Depth:</b> 63'	<b>Total Boring Depth:</b> 126.5'	<b>Well Casing Diameter:</b> 2"

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station 6111

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

**Well Description:**

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Wall ☐ Pit Well

**Well Type:** check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☒ Vapor Extraction

☒ Monitoring ☐ Inclinator ☐ Groundwater ☒ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☒ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

## Additional Questions For Water Producing Wells

Does the well have:

- Outer conductor casing? ☐ Yes ☐ No
- Annular cement seal outside of casing at surface? ☐ Yes ☐ No
- A S.C.V.W.D. water meter attached? ☐ Yes ☐ No

**Type of Original Drilling Method:**

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☐ Hollow Stem Auger ☐ Other: \_\_\_\_\_

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.



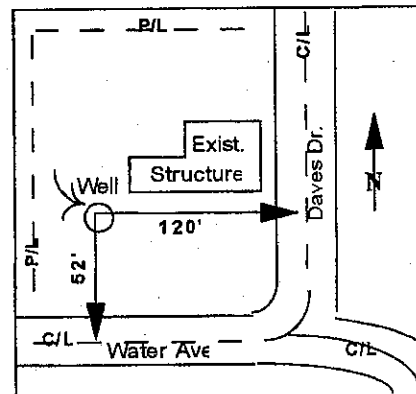
## Site Plan

### WELL LOCATION

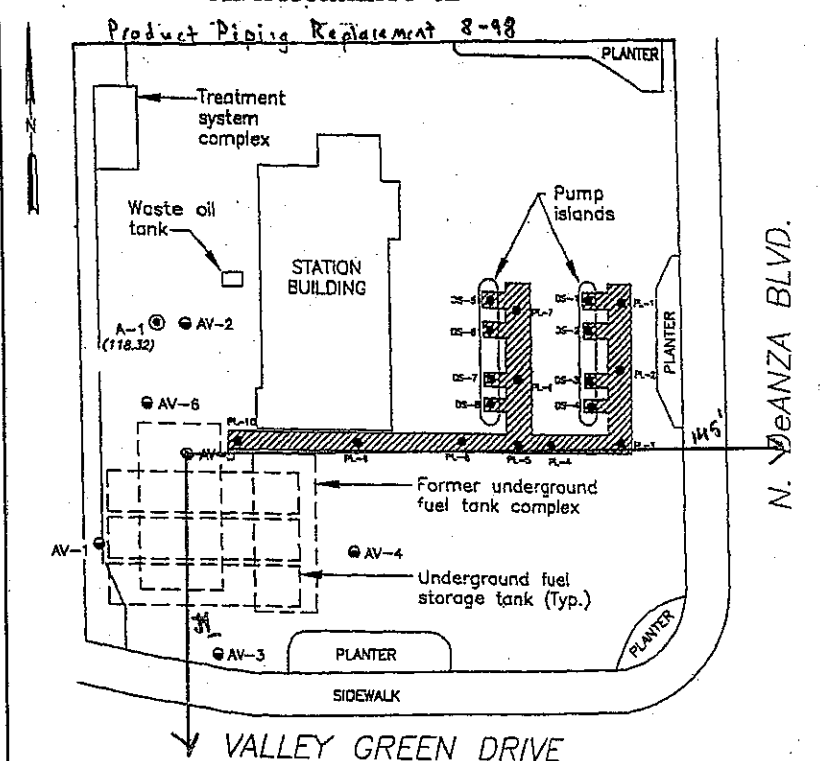
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



### ATTACHMENT 1D



#### EXPLANATION

- ⊙ Groundwater monitoring well
- Vadose zone monitoring well
- Soil Sample Location
- ▨ Product Piping Trench

0 30 60

SCALE IN FEET



DATE	OCT. 1998
DWN	KAB
APP	
REV	0
PROJECT NO.	20803-205.001

**FIGURE 1**  
ARCO PRODUCTS COMPANY  
SERVICE STATION 6111  
CUPERTINO, CALIFORNIA  
GROUNDWATER DATA SUMMARY  
SECOND QUARTER 1998

Please allow 10 working days to process this application.



Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

**NOTE:** All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Jacob Henry/ URS for Atlantic Richfield Co	Date: 8-30-05
Signature of Driller/Agent: 	Print Name: Jacob Henry/ URS for Gregg Drilling	Date: 8-30-05
Signature of Consultant (if any): 	Print Name: Jacob Henry/ URS	Date:

**DISTRICT USE ONLY**

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

**NOTE:** Neat cement is the only sealing material approved for pressure grouting.

☒ OR Drill out well to a total depth of 63 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). **NOTE:** Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 	Date: 9-14-05		
District Permit No.: 05D00564	Date Issued: 9-14-05	Expiration Date: 3-14-06	Driller's Log No.: 029732

Please allow 10 working days to process this application.





**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.

Santa Clara Valley Water District



# WELL INSPECTION COMPLETION NOTICE

FC 158A (07-26-89) (DP 4-001)

From: WELL SECTION	Date: 4/18/91	Permit No.: 91W0796
Inspector: MICHAEL HELLER	Date of Inspection: 4/17/91	Well Registration No.: AV-5 0752W12PO3A
Well Owner: ARLO		
Address of Well Site: 10625 N. DEANZA BLVD.		City or County: CUPERTINO
Drilling Company: WEST HAEMAT	Consultant: PACIFIC ENVIRONMENTAL GROUP SL	

## PURPOSE OF WELL:

- |   |  |
|---|--|
| <input type="checkbox"/> Domestic             | <input checked="" type="checkbox"/> *Monitoring Well Use |
| <input type="checkbox"/> Agricultural         | <input checked="" type="checkbox"/> *Vadose              |
| <input type="checkbox"/> Municipal/Industrial | <input type="checkbox"/> *Groundwater                    |
| <input type="checkbox"/> Cathodic Protection  | <input type="checkbox"/> *Other                          |

- Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
- Depth of Surface Annular Seal = 40'

Comments: TD = 126 1/2' SAND UP TO 40' 10 SACK SLURRY  
 NEAT CEMENT 120 1/2 - 63' BENTONITE = 3' HOLLOW STEM  
 SCREEN = 63' - 43'

Distribution: White - Well Section Yellow - Water Revenue Pink - Permittee Goldenrod - City/County

①

Santa Clara Valley Water District

5750 Almaden Expressway, San Jose, CA 95118 (408) 265-2600

# WELL CONSTRUCTION APPLICATION

FC 156 (12-08-89) (DP 4-901)

project 330-41.03

TO BE COMPLETED BY DISTRICT		
District Permit No.: 91W0796	Date Issued: 4-11-91	Well Registration No.: 0752W12P03A
Geologic Setting: 3	Expiration Date: 10-11-91	Driller's Log No.: 382836

TO BE COMPLETED BY OWNER AND DRILLER		
Property Owner: ARCO Products	Well Owner (if different):	Drilling Co.: West Hazmat
Address: PO Box 5811	Address of Well Site: 101025 N. De Anza Blvd.	Driller's Contractors License Number (C-57 Req'd): 057-554979
City, State, Zip: San Mateo, Ca	City, State, Zip: Cupertino, Ca	Address: 3233 Fitzgerald
Telephone No.:	Telephone No.:	City, State, Zip: Rancho Cadenas, Ca 95742

Assessor's Parcel No. of Well site: Book 326 Page 10 Parcel 028	Owner's/Consultant's Well No.: AV-5	Telephone No.: (916) 638-7276
Estimated depth of completed well: <input type="checkbox"/> Less than 50 ft. <input checked="" type="checkbox"/> 50 to 300 ft. <input type="checkbox"/> Over 300 ft. Purpose of Well: <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal/Industrial <input type="checkbox"/> Agricultural <input checked="" type="checkbox"/> *Monitoring <input type="checkbox"/> Cathodic Protection *Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive air samples for analysis. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.		

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

Purpose of Monitoring Well: <input type="checkbox"/> To comply with City or County Hazardous Materials Storage Permit Ordinance <input checked="" type="checkbox"/> Exploration studies	<input type="checkbox"/> Other (specify):	<input type="checkbox"/> Extraction/Recovery
---	---	--

NAME OF BUSINESS AT WELL SITE: ARCO Service Station

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☐ No

If yes, give name of City or County:

Consultant's Name (Company): Pacific Environmental Group
Address: 1601 Civic Center Dr. #202
City, State, Zip: Santa Clara, Ca 95050
Telephone No.: (408) 984-6536

Type of monitoring device: <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Vadose
Monitoring well use: <input type="checkbox"/> Depth <input type="checkbox"/> Quality <input type="checkbox"/> Chloride
Vadose device installation: <input checked="" type="checkbox"/> Vapor <input type="checkbox"/> Interface <input type="checkbox"/> Suction Lysimeter
Signature of Responsible Professional (No substitution of signature will be accepted) <i>D. E. Luoma</i> CEG/293
Registration No. Civil Engineer OR Certificate No. Engineering Geologist

## TOPOGRAPHIC FEATURES

Well is to be constructed: <input type="checkbox"/> In a public sidewalk <input type="checkbox"/> In a public road <input type="checkbox"/> On public property <input checked="" type="checkbox"/> On private property <input type="checkbox"/> On SCVWD property	
Within 50 ft. of the top of a creek bank <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 50 ft. of any existing well <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 50 ft. of a sanitary sewer <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 150 ft. of a cesspool or seepage pit <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 100 ft. of a pit privy, septic tank, leachfield <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other wells exist on this property <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Status: <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Abandoned	

## CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

*Phonda Parvick for Arco* 4/10/91  
Signature of Well Owner/Agent Date

*Phonda Parvick for W. Haz.* 4/10/91  
Signature of Driller/Agent Date

MONITORING WELL PLAN APPROVAL	
City/County:	
Approved by:	
Date:	

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 927-0710 Ext. 660. For weekends, holidays, after hours call (408) 395-8121 or (408) 927-0710.



Well Number	Screened Interval (feet below ground surface)
AV-1	45 to 60
AV-2	45 to 65
AV-3	40 to 55
AV-4	39 to 54
AV-5	43 to 63

A Lonestar 2 x 12 sand pack was placed in the annular space across the screened interval and extends approximately 2 to 5 feet above the top of the screens. A bentonite and cement seal extends from the sand pack to the ground surface. A locking cap and protective vault box were installed on top of each well. The attached boring logs show well construction details.

#### Laboratory Analysis

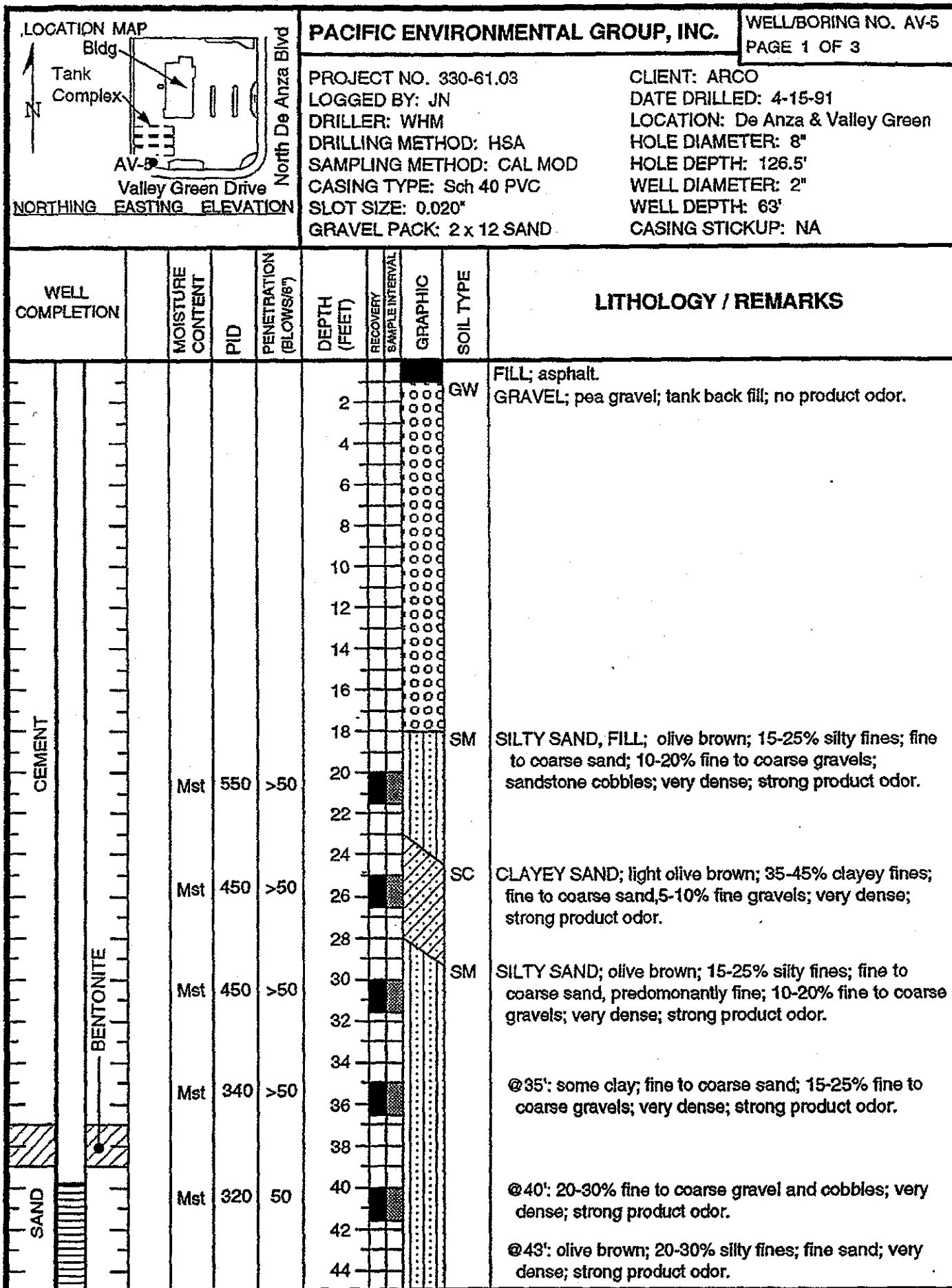
Soil samples from the borings were analyzed for total petroleum hydrocarbons (calculated as gasoline), and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Soil samples from 5-foot intervals from each boring were submitted for analysis. The analytical method for determining the presence of total petroleum hydrocarbons (TPHg) is taken from EPA Methods 8015, 8020, and 5030 using the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and photo-ionization detector. The certified analytical reports are attached to this report.

#### FINDINGS

##### Subsurface Conditions

Soils encountered at the site consisted primarily of clayey sands, silty sands, poorly graded sands, and clayey gravels, two distinct and continuous clay/silt layers, and some discontinuous clay and silt layers (Figure 6). The depth of the borings ranged from 101-1/2 to 126-1/2 feet. The top of the first clay/silt layer occurred at different depths in each well ranging from 54 to 68 feet. The thickness of this layer ranged from approximately 3 to 13 feet. The second clay/silt layer occurred at depths ranging from 74 to 80 feet and was found to range in thickness from 1 to 16 feet. This second clay/silt layer was not found in AV-1.

Groundwater was not encountered in any of the borings and thus no groundwater monitoring wells were installed. Depth to groundwater data obtained from the



LOCATION MAP		PACIFIC ENVIRONMENTAL GROUP, INC.		WELL/BORING NO. AV-5 PAGE 2 OF 3				
See Page One		PROJECT NO. 330-61.03		CLIENT:				
		LOGGED BY:		DATE DRILLED:				
		DRILLER:		LOCATION:				
		DRILLING METHOD:		HOLE DIAMETER:				
		SAMPLING METHOD:		HOLE DEPTH:				
		CASING TYPE:		WELL DIAMETER:				
		SLOT SIZE:		WELL DEPTH:				
		GRAVEL PACK:		CASING STICKUP:				
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	V. Mst	280	>50	46			SM	SILTY SAND - continued.
				48				
	V. Mst	280	>50	50				@ 50': very dense; some product odor.
				52				
	Mst	280	>50	56				@ 55': very dense; some product odor.
				58				
	Mst-Wt	900	>50	60				@ 60': 5-10% fine gravel; very dense; moderate product odor.
				62				
	Mst	240	>50	66			CL	CLAY; olive brown; low to moderate plasticity; silty; 15-25% fine sand; hard; very faint product odor.
				68				
	Mst	220	>50	70				@ 70': hard; no product odor.
				72				
	Mst	220	>50	76			SM	SILTY SAND; olive brown; 15-25% silty fines; some clay; fine sand; very dense; no product odor.
				78				
Mst	220	>50	80			CL	CLAY; olive brown; moderate plasticity; 20-30% fine to coarse sand; 5-15% fine to coarse gravel; hard; no product odor.	
			82					
Mst	175	>50	84			ML	SILT; olive brown; some clay; 30-40% fine sand; hard; no product odor.	
			86					
			88					

LOCATION: MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-5

PAGE 3 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement				90			ML	SILT - continued.
	Mst	106	>50	92			SM	SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; very dense; no product odor.
				94				
	Mst	45	>50	96				@95': some clay; 5-15% fine to coarse gravel; very dense; no product odor.
				98				
	Mst	46	>50	100				@100': no clay; fine sand only; no gravel; very dense; no product odor.
				102				
				104				
	Mst	80	>50	106				@105': very dense; no product odor.
				108				
	Mst	10	>50	110				@110': fine to coarse sand; predominantly fine sand; very dense; no product odor
				112				
				114				
	Mst	1	>50	116				@115': 10-15% silty fines; fine to coarse sand; some clay; 15-25% fine to coarse gravel; very dense; no product odor.
				118				
	Mst	1	>50	120				@120': very dense; no product odor.
				122				
				124				
	Mst	1	>50	126				@125': very dense; no product odor; auger refusal.
				128				
				130				
				132				
								BOTTOM OF BORING AT 126.5'





APN: 32610028  
10625 N De Anza Blvd  
Cupertino CA  
95014

Well Annotations- 7 Wells Selected

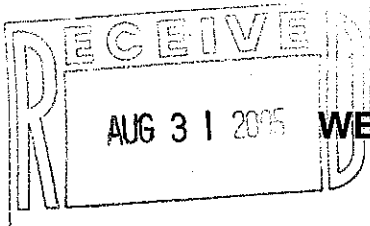
No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	07S02W12P002	86W0263	A611-B9	Other-Active	6115958	1947112
2	07S02W12P003	91W0794	AV-1	Other-Active	6115957	1947019
3	07S02W12P004	91W0796	AV-5	Other-Active	6115978	1947038
4	07S02W12P005	91W0797	AV-4	Other-Active	6115997	1947017
5	07S02W12P006	91W0793	AV-3	Other-Active	6115978	1946996
6	07S02W12P007	91W0795	AV-2	Other-Active	6115956	1947077
7	07S02W13F001	96W00124	A 1	Other-Active	6115961	1947058

Wells.shp

- Water Supply - Active
- Water Supply - Standby
- Water Supply - Inactive
- Extraction (Env) - Active
- Extraction (Env) - Inactive
- Other - Active
- Other - Inactive
- Abandoned
- Destroyed
- Status Undetermined
- Parcels.shp
- FuelLeak.shp
- VALFLOOR.SHP
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

Approximate Scale

25 0 25 50 Feet



# WELL DESTRUCTION APPLICATION

FC 198w (12-16-02)

Page 1 of 4

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00567

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station #6111
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 10625 North DeAnza Blvd.
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Cupertino, CA
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 326 Page: 10 Parcel: 028
<b>Consultant:</b> URS Corporation	<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800	<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612	<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 / John McCain	<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

## Well Information

<b>Well Registration No.:</b> <del>0730212123002</del> <i>un-registered</i>	<b>Owner/Consultant Well No.:</b> <del>(464489)</del> <i>AV-6</i>	<b>Original Well Construction Permit No.:</b> <del>8640263</del> <i>un-registered</i>
<b>Well Casing Depth:</b> <i>12'</i> <i>See Well Location Map</i>	<b>Total Boring Depth:</b> <i>FE</i>	<b>Well Casing Diameter:</b> <i>11"</i>

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station 6111

FL# 01-023

C. Tullohn

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

<input type="checkbox"/> Well on SCVWD property/easement*	<input type="checkbox"/> Well is within 50 feet of the top of a creek/river bank*	(* See General Conditions, E.)
<b>Well Description:</b>		
<input checked="" type="checkbox"/> Vertical Well	<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Elevator Shaft
<input type="checkbox"/> Multiple Casing	<input type="checkbox"/> Horizontal Wall	<input type="checkbox"/> Pit Well
<b>Well Type:</b> check all that apply		
<input type="checkbox"/> Water Producing (supply or extraction)	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal & Industrial	<input checked="" type="checkbox"/> Vapor Extraction
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Inclinator	<input type="checkbox"/> Groundwater
<input checked="" type="checkbox"/> Vadose	<input type="checkbox"/> Piezometer	<input type="checkbox"/> Interface
<input type="checkbox"/> Suction Lysimeter	<input type="checkbox"/> Seismic	<input type="checkbox"/> Injection/Infiltration
<input checked="" type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Reclaimed Water	<input type="checkbox"/> Air Sparging
<input type="checkbox"/> Cathodic Protection		

## Additional Questions For Water Producing Wells

Does the well have:	1. Outer conductor casing?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	2. Annular cement seal outside of casing at surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	3. A S.C.V.W.D. water meter attached?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Type of Original Drilling Method:

<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable-Tool	<input type="checkbox"/> Hand Dug Pit Well	<input type="checkbox"/> Hollow Stem Auger	<input type="checkbox"/> Other:
---------------------------------	-------------------------------------	--	--	---------------------------------

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.



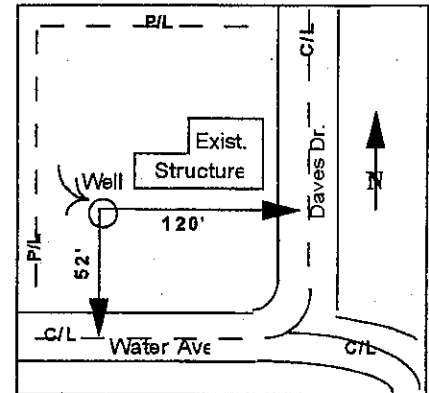
Site Plan

WELL LOCATION

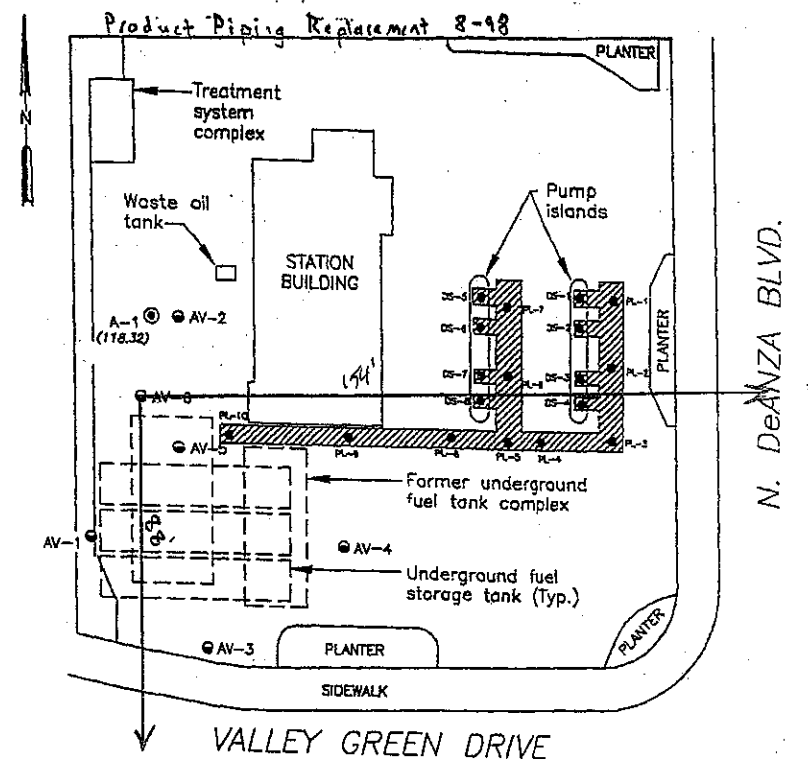
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



ATTACHMENT 1D



EXPLANATION

- ⊙ Groundwater monitoring well
- Vadose zone monitoring well
- Soil Sample Location
- ▨ Product Piping Trench

0 30 60  
SCALE IN FEET

**Pinnacle**

ENVIRONMENTAL SOLUTIONS  
A DIVISION OF EMCOR

DATE OCT. 1998  
DWN KAS  
APP  
REV 0  
PROJECT NO.  
20803-205.001

FIGURE 1  
ARCO PRODUCTS COMPANY  
SERVICE STATION 6111  
CUPERTINO, CALIFORNIA  
GROUNDWATER DATA SUMMARY  
SECOND QUARTER 1998

AV-6

There is evidence @ the site that this well has already been destroyed. However, URS has nothing in its records indicating this. If this well has been destroyed according to SCVWD records, please do not supply URS w/ a permit to destroy AV-6.

Please allow 10 working days to process this application.



Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Jacob Henry/ URS for Atlantic Richfield Co	Date: 8-30-05
Signature of Driller/Agent: 	Print Name: Jacob Henry/ URS for Gregg Drilling	Date: 8-30-05
Signature of Consultant (if any): 	Print Name: Jacob Henry/ URS	Date: 8-30-05

## DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 12 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: well may have been previously removed during tank removal activities? District records indicate well has not been destroyed.

Permit Approved By:		Date: <u>9-14-05</u>	
District Permit No.: <u>05D00567</u>	Date Issued: <u>9-14-05</u>	Expiration Date: <u>3-14-06</u>	Driller's Log No.: <u>029735</u>

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.



APN: 32610028  
10625 N De Anza Blvd  
Cupertino CA  
95014

## Well Annotations- 7 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	07S02W12P002	86W0263	A611-B9	Other-Active	6115958	1947112
2	07S02W12P003	91W0794	AV-1	Other-Active	6115957	1947019
3	07S02W12P004	91W0796	AV-5	Other-Active	6115978	1947038
4	07S02W12P005	91W0797	AV-4	Other-Active	6115997	1947017
5	07S02W12P006	91W0793	AV-3	Other-Active	6115978	1948996
6	07S02W12P007	91W0795	AV-2	Other-Active	6115958	1947077
7	07S02W13F001	96W00124	A 1	Other-Active	6115961	1947058

- Wells.shp
- Water Supply - Active
  - Water Supply - Standby
  - Water Supply - Inactive
  - Extraction (Env) - Active
  - Extraction (Env) - Inactive
  - Other - Active
  - Other - Inactive
  - Abandoned
  - Destroyed
  - Status Undetermined
- Parcels.shp
- Fuelleak.shp
- VALFLOOR.SHP
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

Approximate Scale

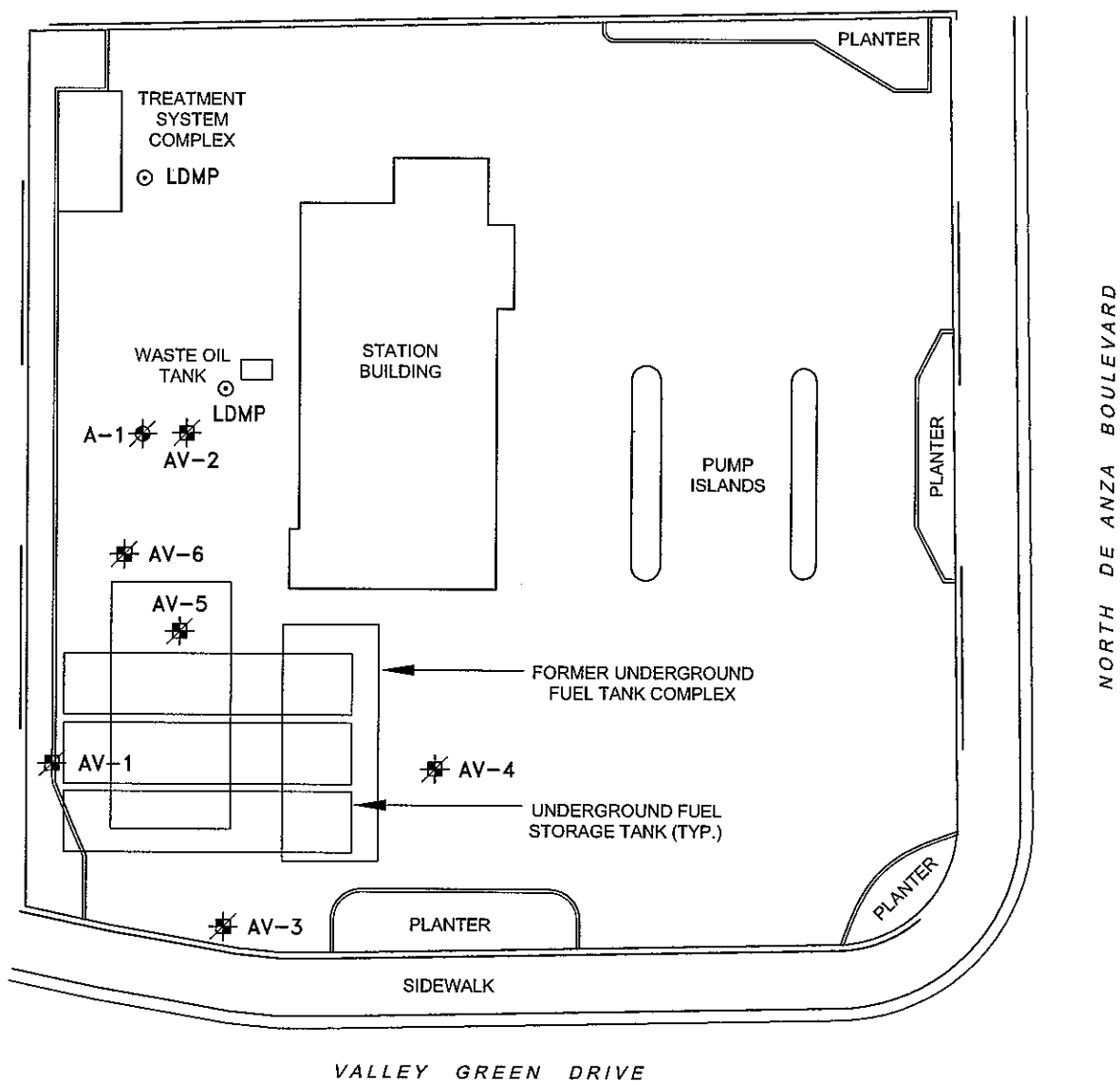
25 0 25 50 Feet

**Attachment B**




DWR Well Completion Reports

(Original copy submitted to the SCVWD Wells Division)

Dec 13, 2005 - 5:10pm  
X:\x\_env\waste\BP GEM\Sites\Lynelle Drishl - SCVVD ARCO Sites\2005 Well Destructions\6111\Well Destruction Report\Drawings\ITEMAP.dwg

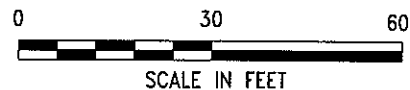


**LEGEND:**

- A-1  DESTROYED GROUNDWATER MONITORING WELL LOCATION
- A-3  DESTROYED VADOSE ZONE MONITORING WELL LOCATION
- LDMP  EXISTING LEAK DETECTION MONITORING PROBE LOCATION



NORTH



NOTE: SITE MAP ADAPTED FROM SECOR INTERNATIONAL FIGURES.  
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

**URS**

Project No. 38487385

Arco Service Station #6111  
Sunnyvale, California

**SITE MAP**

FIGURE

**1**

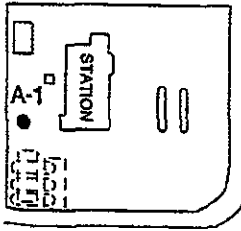


IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/12/05</b>		Permit: <b>05D00562</b>	
Owner/Consultant No: <b>A-1</b>		Well Registration No: <b>07502W13F001</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>10625 N De Anza</b>		City or County: <b>Capitola</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>HRS</b>			
Well Depth: <b>150</b>	Borehole Diameter: <b>8"</b>	Casing Diameter: <b>2"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry	<input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate			<input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
<input type="checkbox"/> Bail Pert & Backfill <input type="checkbox"/> Bail & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)	
GPS Coordinates: Lat		Long			
Comments:					

Distribution: ORIGINAL Permit File: YELLOW City/County: PINK Well File: GOLDENROD Permittee

## LOCATION MAP



Valley Green Drive

North DeAnza Boulevard



## PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. A-1

PAGE 1 OF 4

PROJECT NO. 330-061.1C

LOGGED BY: MOTO

DRILLER: BAYLAND

DRILLING METHOD: MUD ROTARY

SAMPLING METHOD: CAL MOD

CASING TYPE: SCH 80 PVC

SLOT SIZE: 0.020

GRAVEL PACK: #3 SAND

CLIENT: ARCO

DATE DRILLED: 2-26-96 to 3-1-96

LOCATION: 10625 N. DeAnza Blvd.

HOLE DIAMETER: 8"

HOLE DEPTH: 150'

WELL DIAMETER: 2

WELL DEPTH: 150'

CASING STICKUP: NA

WELL  
COMPLETIONMOISTURE  
CONTENT

PID

PENETRATION  
(BLOWS/FT)DEPTH  
(FEET)RECOVERY  
SAMPLE INTERVAL

GRAPHIC

SOIL TYPE

LITHOLOGY / REMARKS

GROUT

Mst

0

PUSH

2

4

6

8

Mst

0

&gt;50

10

12

14

Mst

0

&gt;50

16

18

Mst

0

&gt;50

20

22

Mst

0

&gt;50

24

26

28

Mst

0

&gt;50

30

32

34

Mst

0

&gt;50

36

38

Mst

80

50

40

42

44

SM

FILL; asphalt and base rock.

SILTY SAND; dark yellowish brown; 15-25% silty fines; some clay; fine to coarse sand; 20-30% fine to coarse gravels; very dense; no product odor.

LITHOLOGY TAKEN FROM BORING  
LOG AV-2 0-43 1/2 FEET bgs

@10': 30-40% fine to coarse gravels; very dense; no product odor.

@15': 20-30% silty fines; fine sand; very dense; no product odor.

@20.5': 15-25% silty fines; fine to coarse sand; 5-15% fine to coarse gravels; very dense; no product odor.

CL

CLAY; dark yellowish brown; low to moderate plasticity; 25-35% fine to coarse sand; 5-10% fine gravels; hard; no product odor.

SM

SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 5-15% fine gravels; very dense; no product odor.

@35': very dense; no product odor.

@40': very dense; faint product odor.

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. A-1

PAGE 2 OF 4

See Page One

PROJECT NO. 330-061.1C

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT: ARCO

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				46			SM	SILTY SAND: as above.
				48				
	Mst	115	34	50				@48.5': as above; medium dense; moderate product odor.
				52				
	Mst	57	29	54				@53.5-55': 20% silty fines; 70% fine sand; 10% medium sand; medium dense; faint product odor.
				56				
	Mst	350	35	58				@58.5-60': 20% silty and clayey fines; 70% fine sand; 10% fine gravel; medium dense; moderate product odor.
				60				
				62				
				64				
				66				
				68				
				70				
				72				
	Mst	163	32	74			CL	SANDY CLAY: olive brown; moderate plasticity; 75% clayey fines; 20% fine to medium sand; trace fine gravel; very stiff; faint to moderate product odor.
				76				
				78				
				80				
				82				
				84			ML	SILT: olive brown to dark greenish gray; no plasticity; 70% silty fines; 30% fine sand; hard.
				86				
				88				



LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. A-1

PAGE 4 OF 4

See Page One

PROJECT NO. 330-061.1C

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT: ARCO

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
SAND	Mst-Wt	0	>63	134		GP	GP	SANDY GRAVEL: see previous page.
				136		GC	GC	CLAYEY GRAVEL: olive brown; 30% clayey fines; 10% fine to coarse sand; 60% angular to rounded gravel up to 1" diameter; very dense; no product odor.
				138				
				140				
				142				
				144				
				146				
				148		CL	CL	GRAVELLY CLAY: yellowish brown; 75% clayey fines; 10% fine to medium sand; 15% fine rounded gravel; hard; no product odor.
	Mst	0	49	150				BOTTOM OF BORING 150'
				152				
				154				
				156				
				158				
				160				
				162				
				164				
				166				
				168				
				170				
				172				
				174				
				176				







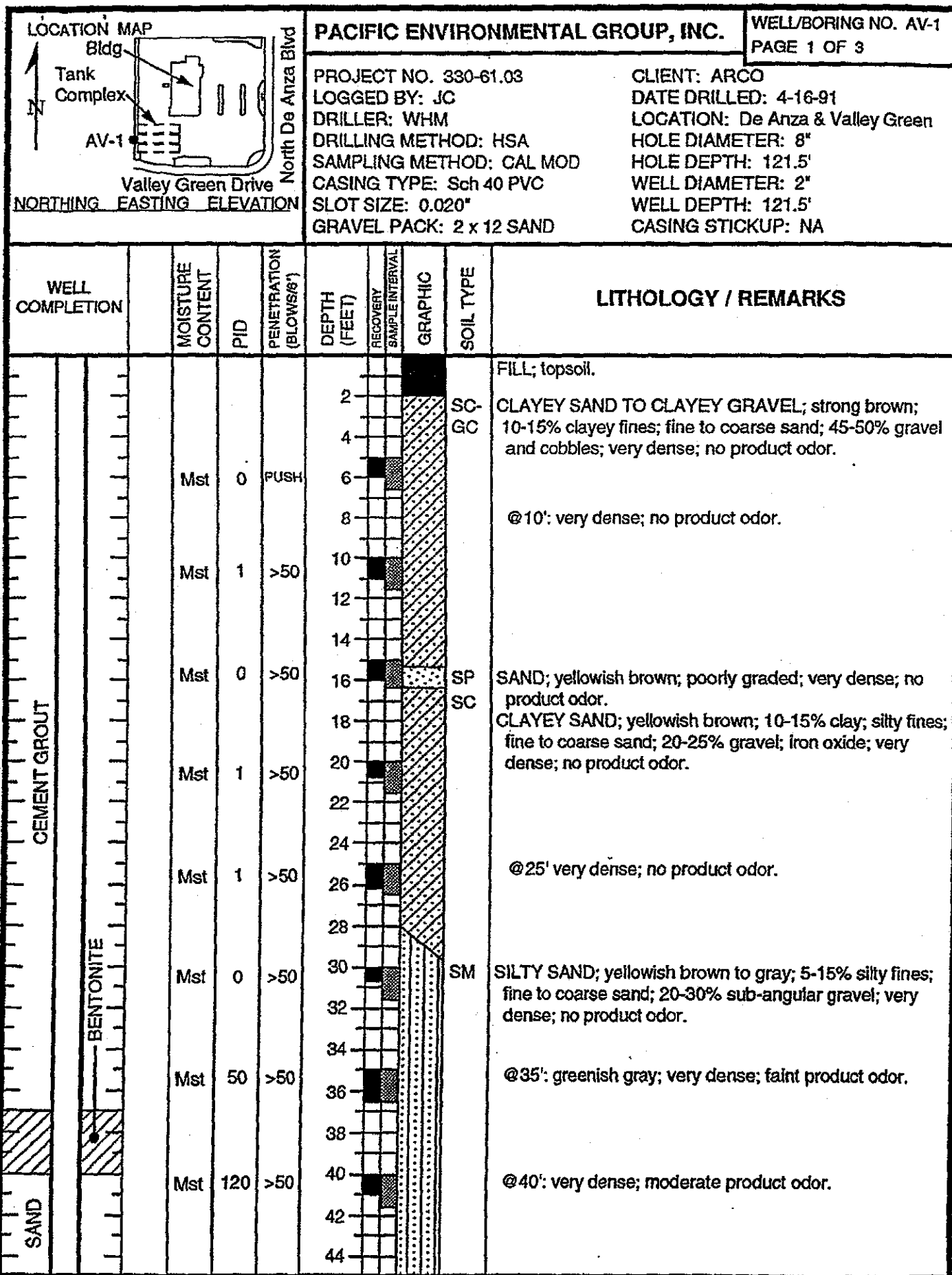
# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/12/05</b>		Permit: <b>05D00566</b>	
Owner/Consultant No: <b>AV-1</b>		Well Registration No: <b>07302W12P003</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>0625 N De Anza</b>		City or County: <b>Cup</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>60</b>	Borehole Diameter: <b>8</b>	Casing Diameter: <b>2"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>				Sealing Material: <input type="checkbox"/> Neaf Cement <input type="checkbox"/> 10 Sack Sand Slurry	
				<input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)	
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate					
<input type="checkbox"/> Bail, Perf. & Backfill <input type="checkbox"/> Bail & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates: Lat: Long:					
Comments:					

Distribution: ORIGINAL Permit File: YELLOW City/County: PINK Well File: GOLDENROD Permittee





LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-1

PAGE 2 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

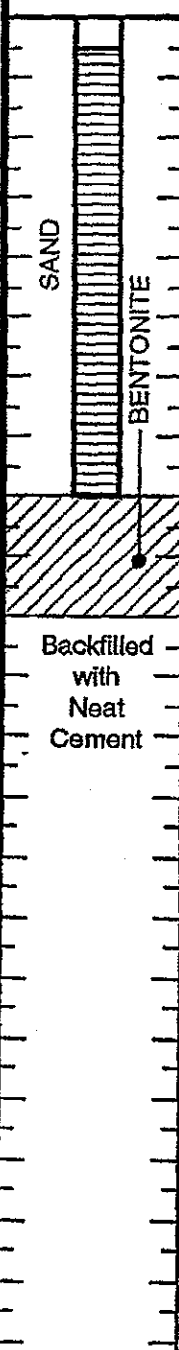
HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	V. Mst	350	>50	46			SM	SILTY SAND - continued.
				48				
	V. Mst	290	>50	50				@45': strong brown; 35-45% silty fines; predominantly fine sand; trace coarse sand; very dense; strong product odor.
				52				@50': very dense
				54				
	V. Mst	210	>50	56				@55': very dense; moderate product odor.
				58				
				60				@58': dark greenish gray; 5-10% silty fines; fine to coarse sand; 5-10% gravel; very dense; strong product odor.
	Wt	50	>50	62			CL	CLAY; strong brown; low plasticity; 30-40% very fine sand; hard; moderate product odor.
				64				
	Mst	40	>50	66				@65': hard; moderate product odor.
				68			SC	CLAYEY SAND; strong brown; 25-30% clay and silt; fine
	Mst	130	>50	70				to coarse sand, trace gravel; very dense; moderate product odor.
				72				
	Mst	51	>50	74				@75': very dense; no product odor
				76				
				78			SM	SILTY SAND; strong brown; 30-35% silt and clay; fine to coarse sand; trace to 5% gravel; very dense; no product odor.
	Mst	21	>50	80				
				82				
				84				
	Mst	40	>50	86				@85': 20-25% gravel; very dense; no product odor.
				88				

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-1

PAGE 3 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement				90			SM	SILTY SAND - continued.
	Mst	8	>50	92				@ 90': very dense; no product odor.
				94				@ 94': very dense; no product odor.
	Mst	18	>50	96				
				98				@ 98': strong brown; 20-30% fines; fine sand; dense; no product odor.
	Mst	5	>50	100				
				102				
				104				@ 105': 10-15% coarse sand and gravel; very dense; no product odor.
	Mst	15	>50	106				
				108				
	Mst	9	>50	110				@ 110': very dense; no product odor.
				112				
				114				
	Mst	3	>50	116				@ 115': very dense; no product odor.
				118				
	Mst	4	>50	120				@ 120': very dense ; no product odor.
				122				
				124				
				126				
				128				
				130				
				132				
								BOTTOM OF BORING AT 121.5'

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Inspector <b>Thiemann</b>		Date of Inspection <b>10/12/05</b>		Permit <b>05DC0565</b>	
Owner/Consultant No. <b>AV-2</b>		Well Registration No. <b>075042W12P007</b>			
Well Owner <b>Atlantic Richfield Co</b>		Address of Well Site <b>10625 N. De Anza</b>		City or County <b>Cup</b>	
Drilling Company <b>Gregg</b>		Consultant <b>LRS</b>			
Well Depth <b>65</b>	Borehole Diameter <b>8 1/2"</b>	Casing Diameter <b>2"</b>	Casing Material <b>PVC</b>	Well Type <input checked="" type="checkbox"/> HSA	<input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)
Casing Perforated <input checked="" type="checkbox"/>		Sealing Material <input checked="" type="checkbox"/> Neat Cement		<input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Destruction Method <input checked="" type="checkbox"/> Pressure Grout		<input type="checkbox"/> Drill Out		<input type="checkbox"/> Excavate	
<input checked="" type="checkbox"/> Bail, Pert. & Backfill		<input type="checkbox"/> Bail & Backfill		<input type="checkbox"/> Other (See Comments)	
Well destroyed according to provisions of Santa Clara Valley Water District Permit?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)	
GPS Coordinates Lat.		Long			
Comments					

Distribution: ORIGINAL Permit File: YELLOW City/County PINK Well File: GOLDENROD Permittee

<div> <div> LOCATION MAP  </div> <div> <b>PACIFIC ENVIRONMENTAL GROUP, INC.</b>  PROJECT NO. 330-61.03  LOGGED BY: JN  DRILLER: WHM  DRILLING METHOD: HSA  SAMPLING METHOD: CAL MOD  CASING TYPE: Sch 40 PVC  SLOT SIZE: 0.020"  GRAVEL PACK: 2 x 12 SAND </div> <div> WELL/BORING NO. AV-2  PAGE 1 OF 3  CLIENT: ARCO  DATE DRILLED: 4-18-91  LOCATION: De Anza &amp; Valley Green  HOLE DIAMETER: 8"  HOLE DEPTH: 126.5'  WELL DIAMETER: 2"  WELL DEPTH: 65'  CASING STICKUP: NA </div> </div>								
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT GROUT				2			SM	FILL; asphalt and base rock.
				4				SILTY SAND; dark yellowish brown; 15-25% silty fines; some clay; fine to coarse sand; 20-30% fine to coarse gravels; very dense; no product odor.
	Mst	0	PUSH	6				
				8				@10': 30-40% fine to coarse gravels; very dense; no product odor.
	Mst	0	>50	10				
				12				
				14				
	Mst	0	>50	16				@15': 20-30% silty fines; fine sand; no gravels; very dense; no product odor.
				18				
	Mst	0	>50	20				@20.5': 15-25% silty fines; fine to coarse sand; 5-15% fine to coarse gravels; very dense; no product odor.
				22				
				24				
			26			CL	CLAY; dark yellowish brown; low to moderate plasticity; 25-35% fine to coarse sand; 5-10% fine gravels; hard; no product odor.	
			28					
			30			SM	SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 5-15% fine gravels; very dense; no product odor.	
			32					
			34					
			36				@35': very dense; no product odor.	
			38					
			40				@40': very dense; faint product odor.	
			42					
			44					

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-2

PAGE 2 OF 3

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

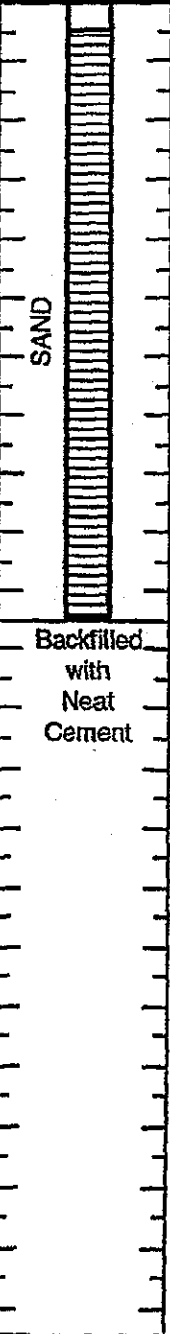
HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Mst	400	>50	46			SM	SILTY SAND - continued. @45': 25-35% silty fines; fine sand; very dense; strong product odor.
				48				
	Mst	400	47	50				@50': 15-25% silty fines; dense; strong product odor.
				52				
				54				
	Mst	350	>50	56				@55': fine to coarse sand, predominantly fine; very dense; strong product odor.
				58				
	Mst	300	>50	60			ML	SILT; olive brown; some clay; 30-40% fine sand; hard; moderate product odor.
				62				
				64				
	Mst	340	>50	66				@65': 35-45% fine sand; hard; moderate product odor.
				68				
	Mst	320	>50	70				@70': 20-30% fine sand; hard; no product odor.
				72				
	Mst	80	>50	74			SM	SILTY SAND; olive brown; 25-35% silty fines; fine sand.
				76				
				78				
	Mst	200	>50	80			CL	CLAY; olive brown; low to moderate plasticity; 20-30% fine to coarse sand; hard; no product odor.
				82				
				84			ML	SILT; olive brown; some clay; 25-35% fine sand; hard; faint product odor.
	Mst	220	>50	86				SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 10-20% fine to coarse gravels; very dense; no product odor.
				88			SM	

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-2

PAGE 3 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement				90			SM	SILTY SAND - continued.
	Mst	50	>50	92				@ 90': very dense; no product odor.
				94				
	Mst	50	>50	96				@ 95': very dense; no product odor.
				98				
	Mst	40	>50	100			ML	SILT; brown; some clay; 15-25% fine sand; hard; no product odor.
				102				@ 100.5-100.75': sand interbed; olive brown; 15-25% silty fines; fine to coarse sand, predominantly coarse.
				104				
	Mst	25	>50	106				@ 105': hard; no product odor.
				108				
	Mst	5	>50	110			SM	SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 5-10% fine gravels; very dense; no product odor.
				112				
	Mst	4	>50	114				@ 115': very dense; no product odor.
				116				
	Mst	15	>50	118			ML	SILT; olive brown; some clay; 15-25% fine to coarse sand, predominantly fine; 5-15% fine to coarse gravels; hard; no product odor.
				120				
	Mst	1	>50	122				
				124			SM	SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; 5-10% fine gravels; very dense; no product odor.
				126				@ 125': auger refusal.
				128				
				130				
				132				BOTTOM OF BORING AT 126.5'



IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/12/05</b>		Permit: <b>05P00568</b>	
Owner/Consultant No: <b>AV-3</b>		Well Registration No: <b>07502W12P006</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>10625 N De Anza</b>		City or County: <b>Cup</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>55</b>	Borehole Diameter: <b>8</b>	Casing Diameter: <b>2"</b>	Casing Material: <b>PC</b>	Well Type: <input checked="" type="checkbox"/> SA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>		Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10-Sack Sand Slurry			
		<input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)			
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate					
<input checked="" type="checkbox"/> Ball Perfr & Backfill <input type="checkbox"/> Ball & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)	
GPS Coordinates: Lat: Long:					
Comments:					

Distribution: ORIGINAL Permit File: YELLOW City/County: PINK Well File: GOLDENROD Permittee

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
<div><div>CEMENT</div><div>BENTONITE</div><div>SAND</div></div>					2				FILL; asphalt.
					4			SC-GC	CLAYEY SAND,CLAYEY GRAVEL; yellowish brown; 10-15% clayey fines; some silt; 25-35% gravel and cobbles; very dense; no product odor.
	Mst	0	PUSH		6				@10': very dense; no product odor.
					8				
	Mst	1	>50		10				
					12			SM	SILTY SAND; strong brown; 20-25% silty fines; predominantly fine sand; trace coarse sand; very dense; no product odor.
					14				
	Mst	0	>50		16				
					18				
	Mst	0	>50		20				@19': yellowish brown; 10-15% silty fines; fine to coarse sand; 10-15% gravel; very dense; no product odor.
					22				
					24				
	Mst	1	>50		26				@25': very dense; no product odor.
					28				
	Mst	1	>50		30				@30': very dense; no product odor.
					32				
					34				
	Mst	7	>50		36				@35': greenish gray; very dense; no product odor.
					38				
	Mst	80	>50		40				@40': very dense; faint product odor.
				42					
				44					

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-3

PAGE 2 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

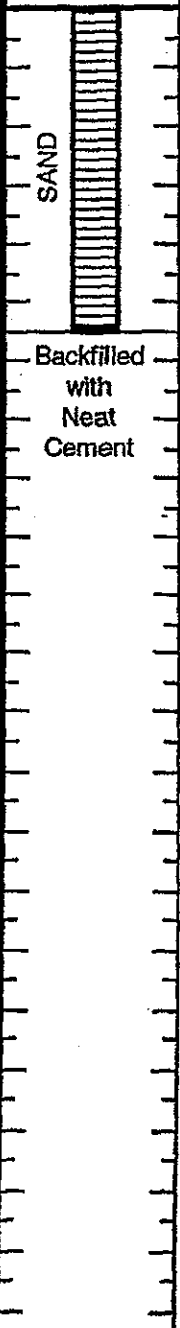
HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Mst	250	>50	46			SM	SILTY SAND - continued. @45': strong brown; 25-35% silty fines; fine sand; trace coarse sand; dense; moderate product odor.
				48				
	Mst	280	>50	50				@50': interbedded poorly graded sand; very dense moderate product odor.
				52				
				54				
	Mst	60	>50	56			ML	SILT; olive brown; 15-25% clayey fines; 10-20% fine sand; hard; faint product odor.
				58				
				60			SM	SILTY SAND; olive brown; 10-20% silty fines; fine to coarse sand; 5-10% fine gravels; very dense; faint product odor.
	Mst	6.0	>50	62				
				64				
	Mst	2.8	>50	66				@65': 20-30% silty fines; 5-15% fine to coarse gravels; very dense; no product odor.
				68				
	Mst	5.0	>50	70				@70': some clay; 30-40% silty fines; fine to coarse sand; predominantly fine sand; very dense; no product odor.
				72				
				74			ML	SILT; olive brown; some clay; 20-30% fine sand; hard; no product odor.
	Mst	4.0	>50	76				
				78				
	Mst	15.5	>50	80				@80': hard; no product odor.
				82				
				84				
	Mst	5.0	>50	86				@85': 0-5% coarse gravels.
				88				

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-3  
PAGE 3 OF 3

See Page One

PROJECT NO. 330-61.03  
LOGGED BY:  
DRILLER:  
DRILLING METHOD:  
SAMPLING METHOD:  
CASING TYPE:  
SLOT SIZE:  
GRAVEL PACK:CLIENT:  
DATE DRILLED:  
LOCATION:  
HOLE DIAMETER:  
HOLE DEPTH:  
WELL DIAMETER:  
WELL DEPTH:  
CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement	Mst	15	>50	90			ML SM	SILT - continued. SILTY SAND; olive brown; 10-20% silty fines; fine to coarse sand, predominantly fine; very dense; no product odor.
	Mst	1	>50	92				
	Mst	1	>50	94				@95': very dense; no product odor.
	Mst	1	>50	96				
	Mst	1	>50	98				
	Mst	1	>50	100				@100': some clay; very dense; no product odor.
				102				
				104				
				106				
				108				
				110				
				112				
				114				
				116				
				118				
				120				
				122				
				124				
				126				
				128				
				130				
				132				
								BOTTOM OF BORING AT 101.5'







# WELL DESTRUCTION COMPLETION NOTICE

FOE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/13/05</b>		Permit: <b>05D00563</b>	
Owner/Consultant No: <b>AV-4</b>		Well Registration No: <b>04502W12P005</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>10625 N. De Anza</b>		City or County: <b>Cup</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>54</b>	Borehole Diameter: <b>8</b>	Casing Diameter: <b>2"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <b>0</b> to <b>0</b>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry	<input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
			<input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate					
<input type="checkbox"/> Bail, Perf. & Backfill <input type="checkbox"/> Bail & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates Lat: Long:					
Comments:					

Distribution: ORIGINAL Permit File, YELLOW City/County, PINK Well File, GOLDENROD Permittee

<div> <div> LOCATION MAP  </div> <div> PACIFIC ENVIRONMENTAL GROUP, INC.  PROJECT NO. 330-61.03  LOGGED BY: JC  DRILLER: WHM  DRILLING METHOD: HSA  SAMPLING METHOD: CAL MOD  CASING TYPE: Sch 40 PVC  SLOT SIZE: 0.020"  GRAVEL PACK: 2 x 12 SAND </div> <div> WELL/BORING NO. AV-4  PAGE 1 OF 3  CLIENT: ARCO  DATE DRILLED: 4-16-91  LOCATION: De Anza &amp; Valley Green  HOLE DIAMETER: 8"  HOLE DEPTH: 101.5'  WELL DIAMETER: 2"  WELL DEPTH: 54'  CASING STICKUP: NA </div> </div>								
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT GROUT				2			SC-GC	FILL; asphalt.
				4				CLAYEY SAND to CLAYEY GRAVEL; yellowish brown; 10-15% clayey fines fine to coarse sand; 40-45% gravel and cobbles; very dense; no product odor.
	Mst	0	PUSH	6				
				8				
	Mst	0	>50	10			SM	SILTY SAND; yellowish brown; 10-15% silty fines; fine to coarse sand; 25-35% gravel; very dense; no product odor.
				12				
	Mst	0	>50	16				@ 15': 20-25% silty fines; fine to coarse sand; predominantly fine sand; 5-10% gravel; very dense; no product odor.
				18				
	Mst	0	>50	20				@ 20': yellowish brown; 10-15% silty fines; fine to coarse sand; 10-15% fine gravel; very dense; no product odor.
				22				
	Mst	0	>50	26				@ 25': very dense; no product odor.
				28				
			30				@ 30': very dense; no product odor.	
			32					
			34					
	Mst	1	>50	36				@ 35': very dense; no product odor.
			38					
	Mst	90	>50	40				@ 40': very dense; faint product odor.
			42					
			44				SM-ML	SILTY SAND; strong brown; 40-45% silt; very fine sand; very dense; faint product odor.



LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-4

PAGE 2 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/8")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
SAND	V. Mst	130	>50	46			SM-ML	SILTY SAND - continued. @45': very dense; faint product odor.
	V. Mst	300	>50	50				@50': very dense; moderate product odor.
Backfilled with Neat Cement	Mst	35	>50	56				@55': very dense; faint product odor.
	Mst	0	>50	60			SM	SILTY SAND; yellowish brown; 5-10% silty fines; fine to coarse sand; 25-35% gravel; very dense; faint product odor.
	Mst	3	>50	66				@65': very dense; no product odor.
	Mst	3	>50	70			CL	CLAY; strong brown; low to moderate plasticity; 30-40% silt and very fine sand; trace coarse sand; hard; no product odor.
	Mst	11	>50	76			SM	SILTY SAND; yellowish brown; 10-15% clay and silt; fine to coarse sand; 20-25% gravel; very dense; no product odor.
				78				@75': very dense; no product odor.
	Mst	15	>50	80				@80': interbedded clay; strong brown; very dense; no product odor.
				82				
	Mst	10	>50	86				@85': yellowish brown; 20-30% silty fines; 5-10% gravel; very dense; no product odor.
				88				

LOCATION MAP  <div style="text-align: center; font-size: 1.2em;">See Page One</div>		PACIFIC ENVIRONMENTAL GROUP, INC.				WELL/BORING NO. AV-4 PAGE 3 OF 3			
		PROJECT NO. 330-61.03 LOGGED BY: DRILLER: DRILLING METHOD: SAMPLING METHOD: CASING TYPE: SLOT SIZE: GRAVEL PACK:				CLIENT: DATE DRILLED: LOCATION: HOLE DIAMETER: HOLE DEPTH: WELL DIAMETER: WELL DEPTH: CASING STICKUP:			
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
Backfilled with Neat Cement	Mst	3	>50	90			SM	SILTY SAND - continued.	
				92				@90': yellowish brown; 10-15% silty fines; fine to coarse sand; 20-25% gravel; very dense; no product odor.	
				94					
	Mst	7	50	96				@95': as above; with interbedded clayey sand; very dense; no product odor.	
				98					
	Mst	4	50	100				@100': very dense; no product odor.	
				102					
				104					
				106					
				108					
				110					
				112					
				114					
				116					
				118					
				120					
				122					
				124					
				126					
				128					
			130						
			132						
								BOTTOM OF BORING AT 101.5'	

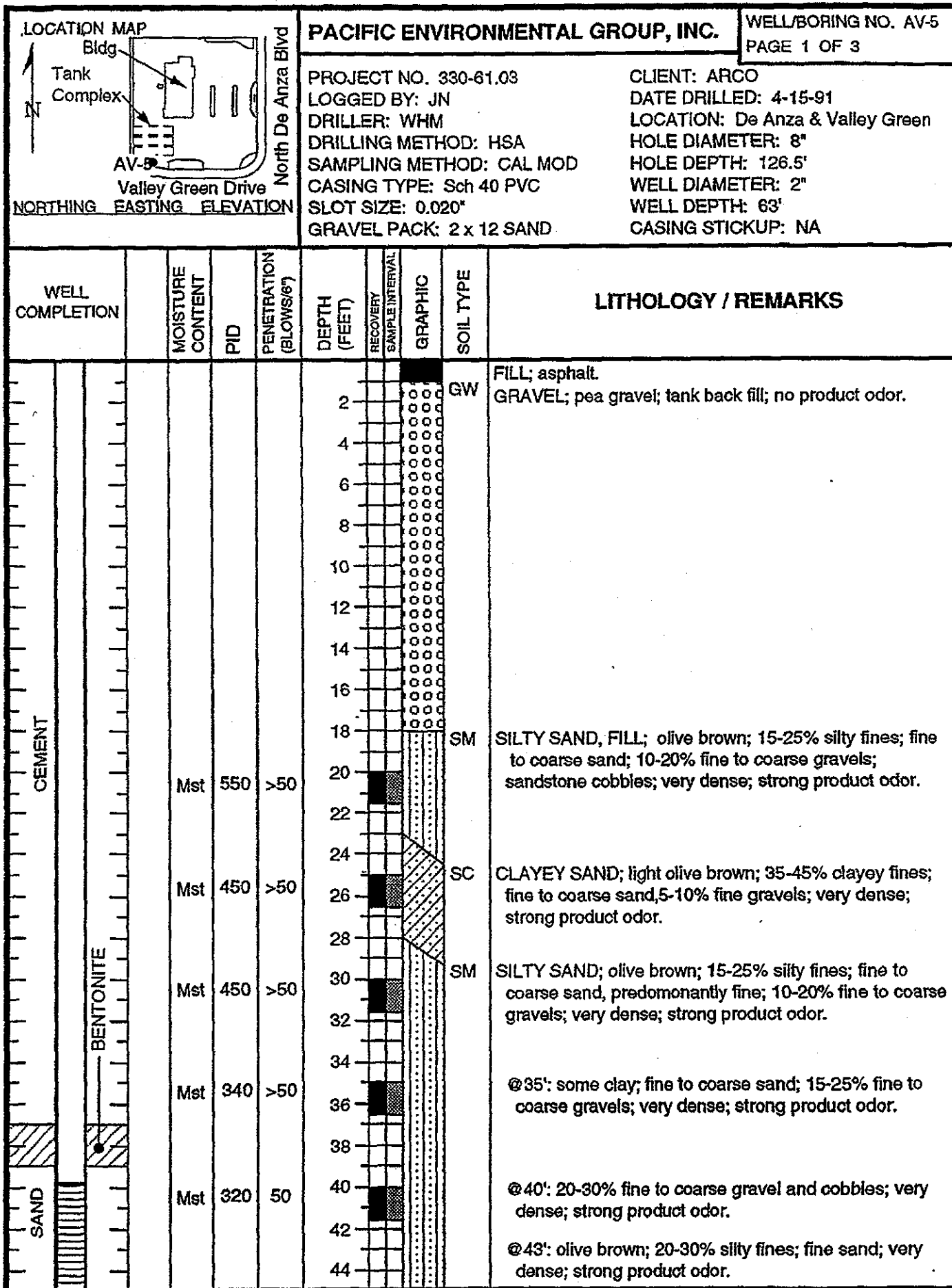




# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/12/05</b>		Permit: <b>05P00564</b>	
Owner/Consultant No: <b>AV-5</b>		Well Registration No: <b>07902W12P004</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>10625 N. DeAnza</b>		City or County: <b>Cup</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>URS</b>			
Well Depth: <b>63</b>	Borehole Diameter: <b>8"</b>	Casing Diameter: <b>2"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA	<input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement	<input type="checkbox"/> 10 Sack Sand Slurry	
			<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Other (See Comments)	
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate					
<input type="checkbox"/> Bail, Perf. & Backfill <input type="checkbox"/> Bail & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates Lat: Long:					
Comments:					
Distribution: ORIGINAL Permit File, YELLOW City/County, PINK Well File, GOLDENROD Permittee					



LOCATION MAP  <div style="text-align: center; font-size: 24pt; font-weight: bold;">See Page One</div>		<b>PACIFIC ENVIRONMENTAL GROUP, INC.</b>  PROJECT NO. 330-61.03 LOGGED BY: DRILLER: DRILLING METHOD: SAMPLING METHOD: CASING TYPE: SLOT SIZE: GRAVEL PACK:		WELL/BORING NO. AV-5 PAGE 2 OF 3  CLIENT: DATE DRILLED: LOCATION: HOLE DIAMETER: HOLE DEPTH: WELL DIAMETER: WELL DEPTH: CASING STICKUP:				
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	V. Mst	280	>50	46			SM	SILTY SAND - continued.
	V. Mst	280	>50	50				@50': very dense; some product odor.
	Mst	280	>50	56				@55': very dense; some product odor.
	Mst-Wt	900	>50	60				@60': 5-10% fine gravel; very dense; moderate product odor.
	Mst	240	>50	66			CL	CLAY; olive brown; low to moderate plasticity; silty; 15-25% fine sand; hard; very faint product odor.
	Mst	220	>50	70				@70': hard; no product odor.
	Mst	220	>50	76			SM	SILTY SAND; olive brown; 15-25% silty fines; some clay; fine sand; very dense; no product odor.
	Mst	220	>50	80			CL	CLAY; olive brown; moderate plasticity; 20-30% fine to coarse sand; 5-15% fine to coarse gravel; hard; no product odor.
	Mst	175	>50	86			ML	SILT; olive brown; some clay; 30-40% fine sand; hard; no product odor.
				88				

LOCATION: MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. AV-5

PAGE 3 OF 3

See Page One

PROJECT NO. 330-61.03

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:

HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled with Neat Cement				90			ML	SILT - continued.
	Mst	106	>50	92			SM	SILTY SAND; olive brown; 15-25% silty fines; fine to coarse sand; very dense; no product odor.
				94				
	Mst	45	>50	96				@95': some clay; 5-15% fine to coarse gravel; very dense; no product odor.
				98				
	Mst	46	>50	100				@100': no clay; fine sand only; no gravel; very dense; no product odor.
				102				
				104				
	Mst	80	>50	106				@105': very dense; no product odor.
				108				
	Mst	10	>50	110				@110': fine to coarse sand; predominantly fine sand; very dense; no product odor
				112				
				114				
	Mst	1	>50	116				@115': 10-15% silty fines; fine to coarse sand; some clay; 15-25% fine to coarse gravel; very dense; no product odor.
				118				
	Mst	1	>50	120				@120': very dense; no product odor.
				122				
				124				
	Mst	1	>50	126				@125': very dense; no product odor; auger refusal.
				128				
				130				
				132				

BOTTOM OF BORING AT 126.5'

Page \_\_\_\_ of \_\_\_\_ *Refer to Instruction Pamphlet*  
Owner's Well No. AU-6 ~~XXXXXX~~"Vareg" No. e029735  
Date Work Began 10-12-05, Ended 10-12-05  
Local Permit Agency SCVWD  
Permit No. 05D00567 Permit Date 9-14-0

Refer to Instruction Pamphlet

DWR USE ONLY										DO NOT FILL IN									
07S62W12P002																			
STATE WELL NO./STATION NO.																			
[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]										[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]									
LATITUDE										LONGITUDE									
[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]																			
APN/TRS/OTHER																			

GEOLOGIC LOG				WELL OWNER			
ORIENTATION ( $\angle$ ) <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE <input type="checkbox"/> (SPECIFY)		DRILLING METHOD <input type="checkbox"/> FLUID		Name <u>Atlantic Richfield Co.</u> Mailing Address <u>P.O. Box 6549</u> <u>Meraga CA 94570</u> CITY _____ STATE _____ ZIP _____			
DEPTH FROM SURFACE Ft. to Ft.		DESCRIPTION Describe material, grain size, color, etc.		WELL LOCATION Address <u>10625 No. De Anza Blvd.</u> City <u>Cupertino</u> County <u>Santa Clara</u> APN Book <u>326</u> Page <u>10</u> Parcel <u>028</u> Township _____ Range _____ Section _____ Latitude _____ NORTH _____ Longitude _____ WEST _____ DEG. MIN. SEC.    DEG. MIN. SEC.			
0    12		<u>Pressure Corroded Well</u> <u>per SCUMM requirement</u>		LOCATION SKETCH NORTH _____ <div style="border: 1px solid black; height: 150px; width: 100%; text-align: center; vertical-align: middle;">             See Attached Map           </div> WEST _____ SOUTH _____ EAST _____			
TOTAL DEPTH OF BORING _____ (Feet)		TOTAL DEPTH OF COMPLETED WELL <u>12</u> (Feet)		ACTIVITY ( $\angle$ ) <input type="checkbox"/> NEW WELL <input type="checkbox"/> MODIFICATION/REPAIR <input type="checkbox"/> Deepen <input type="checkbox"/> Other (Specify) _____ <input checked="" type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG") PLANNED USES ( $\angle$ ) WATER SUPPLY <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial MONITORING _____ TEST WELL _____ CATHODIC PROTECTION _____ HEAT EXCHANGE _____ DIRECT PUSH _____ INJECTION _____ VAPOR EXTRACTION _____ SPARGING _____ REMEDIATION _____ OTHER (SPECIFY) _____			
WATER LEVEL & YIELD OF COMPLETED WELL							
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE							
DEPTH OF STATIC _____							
WATER LEVEL _____ (Ft.) & DATE MEASURED _____							
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____							
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)							
* May not be representative of a well's long-term yield.							

[illegible]

**ATTACHMENTS (   2   )**

14/6 Geologic Log

14/6 Well Construction Diagram

— Geophysical Log(s)

— Soil/Water Chemical Analyses

2 Other Well Port. Notice

**ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.**

CERTIFICATION STATEMENT			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.			
NAME	Kirk S. Martin for Cargg Drilling		
	(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)		
ADDRESS	950 Howe Rd, Martinez CA 94553		
	CITY	STATE	ZIP
Signed	1/9/06 485165		
	WELL DRILLER/AUTHORIZED REPRESENTATIVE	DATE SIGNED	C-57 LICENSE NUMBER



Santa Clara Valley Water District



## WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <u>Thiemann</u>		Date of Inspection: <u>10/12/05</u>		Permit: <u>05D00567</u>	
Owner/Consultant No.: <u>AV-6</u>			Well Registration No.: <u>Unregistered</u>		
Well Owner: <u>Atlantic Richfield Co.</u>		Address of Well Site: <u>10625 DeAnza Blvd</u>		City or County: <u>Cupertino</u>	
Drilling Company: <u>Gregg</u>		Consultant: <u>LRS</u>			
Well Depth: <u>12'</u>	Borehole Diameter: <u>Not listed</u>	Casing Diameter: <u>2"</u>	Casing Material: <u>PVC</u>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>				<input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry				<input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)	
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate					
<input type="checkbox"/> Bail, Perf. & Backfill <input type="checkbox"/> Ball & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates: Lat: Long:					
Comments:					

Distribution: ORIGINAL-Permit File; YELLOW-City/County; PINK-Well File; GOLDENROD-Permittee